



# Recombinant Glycine max 1aminocyclopropane-1-carboxylate synthase (ACS1)

of liquid form is 6 months at -20?/-80?. The shelf life of lyophilized form is 12 months at -20?/-80?.  Uniprot No. P31531  Form Liquid or Lyophilized powder  Storage Buffer If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.  Product Type Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)  Immunogen Species Glycine max (Soybean) (Glycine hispida)  Sensitivity Not Test  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI		
The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20?/-80?. The shelf life of lyophilized form is 12 months at -20?/-80?.  Uniprot No. P31531  Form Liquid or Lyophilized powder  If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.  Product Type Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)  Immunogen Species Glycine max (Soybean) (Glycine hispida)  Sensitivity Not Test  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENOLTSDLVEDWILLNNPEASICTPEGINDPRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITHPSNE LGTVMDRTNLTTYMSFINEKRIHLVSDETYSATVFSHPSFISIABLIEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MILNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area Others  Source E.coli  Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	<b>Product Code</b>	CSB-EP333613GGV
storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20?/-80?. The shelf life of lyophilized form is 12 months at -20?/-80?.  Uniprot No. P31531  Form Liquid or Lyophilized powder  Storage Buffer If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.  Product Type Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)  Immunogen Species Glycine max (Soybean) (Glycine hispida)  Sensitivity Not Test  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSVNDAVVHCARKMSSFGLVSTQTYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area Others  Source E.coli  Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Abbreviation	Recombinant Glycine max ACS1 protein
Form Liquid or Lyophilized powder  Storage Buffer If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.  Product Type Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)  Immunogen Species Glycine max (Soybean) (Glycine hispida)  Sensitivity Not Test  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLN KATI  Research Area Others  Source E.coli  Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Storage	storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20?/-80?. The shelf life of lyophilized form is 12
Storage Buffer  If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.  Product Type  Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)  Immunogen Species  Glycine max (Soybean) (Glycine hispida)  Sensitivity  Not Test  Purity  Greater than 85% as determined by SDS-PAGE.  Sequence  MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area  Others  Source  E.coli  Target Names  ACS1  Expression Region  1-484aa  Notes  Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info  C-terminal 6xHis-tagged	Uniprot No.	P31531
5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.  Product Type  Recombinant Glycine max 1-aminocyclopropane-1-carboxylate synthase (ACS1)  Immunogen Species  Glycine max (Soybean) (Glycine hispida)  Sensitivity  Not Test  Purity  Greater than 85% as determined by SDS-PAGE.  Sequence  MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILINNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLA% MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area  Others  Source  E.coli  Target Names  ACS1  Expression Region  1-484aa  Notes  Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info  C-terminal 6xHis-tagged	Form	Liquid or Lyophilized powder
Immunogen Species Glycine max (Soybean) (Glycine hispida)  Sensitivity Not Test  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLVKATI  Research Area Others  Source E.coli  Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Storage Buffer	5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before
Sensitivity         Not Test           Purity         Greater than 85% as determined by SDS-PAGE.           Sequence         MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI           Research Area         Others           Source         E.coli           Target Names         ACS1           Expression Region         1-484aa           Notes         Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.           Tag Info         C-terminal 6xHis-tagged	Product Type	
Purity Greater than 85% as determined by SDS-PAGE.  Sequence MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area Others  Source E.coli  Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Immunogen Species	Glycine max (Soybean) (Glycine hispida)
Sequence  MGLMDVDQTQLLSKMVIGDGHGEASPYFDGWKAYDENPFHPKENPNGVIQM GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area  Others  Source  E.coli  Target Names  ACS1  Expression Region  1-484aa  Notes  Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info  C-terminal 6xHis-tagged	Sensitivity	Not Test
GLAENQLTSDLVEDWILNNPEASICTPEGINDFRAIANFQDYHGLPEFRNAVAK FMGRTRGNRVTFDPDRIVMSGGATGAHEVTTFCLADPGDAFLVPIPYYPGFD RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNF LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV KATI  Research Area Others  Source E.coli  Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Purity	Greater than 85% as determined by SDS-PAGE.
SourceE.coliTarget NamesACS1Expression Region1-484aaNotesRepeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.Tag InfoC-terminal 6xHis-tagged	Sequence	RDLRWRTGIKLVPVMCDSSNNFKLTKQALEDAYEKAKEDNIRVKGLLITNPSNP LGTVMDRNTLRTVMSFINEKRIHLVSDEIYSATVFSHPSFISIAEILEEDTDIECD RNLVHIVYSLSKDMGFPGFRVGIIYSYNDAVVHCARKMSSFGLVSTQTQYLLAS MLNDDEFVESFLVESAKRLAQRHRVFTGGLAKVGIKCLQSNAGLFVWMDLRQ LLKKPTLDSEMELWRVIIDEVKINVSPGSSFHCTEPGWFRVCYANMDDMAVQI ALQRIRNFVLQNKEIMVPNKKHCWHSNLRLSLKTRRFDDIMMSPHSPIPQSPLV
Target Names ACS1  Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Research Area	Others
Expression Region 1-484aa  Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info C-terminal 6xHis-tagged	Source	E.coli
Notes  Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.  Tag Info  C-terminal 6xHis-tagged	Target Names	ACS1
4? for up to one week.  Tag Info  C-terminal 6xHis-tagged	Expression Region	1-484aa
	Notes	
Mol. Weight 61.6 kDa	Tag Info	C-terminal 6xHis-tagged
	Mol. Weight	61.6 kDa



### **CUSABIO TECHNOLOGY LLC**

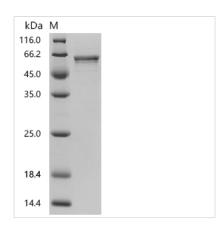




## **Protein Length**

# Full Length

## **Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20?/-80?. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### **Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.