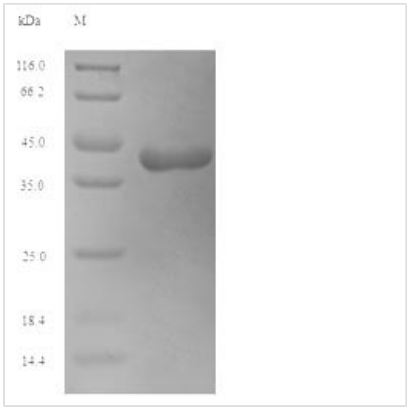
Recombinant Saccharum officinarum Sucrose synthase (SUS1)

Product Code	CSB-EP335680SVV
Relevance	Sucrose-cleaving enzyme that provides UDP-glucose and fructose for various metabolic pathways.
Abbreviation	Recombinant Saccharum officinarum SUS1 protein, partial
Storage	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.
Uniprot No.	P31925
Alias	Sucrose-UDP glucosyltransferase
Product Type	Recombinant Protein
Immunogen Species	Saccharum officinarum (Sugarcane)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ARLDRVKNMTGPVEISGKKARLRELANPVIVAGDHGKESKDRDEAEEQGGFK KMYSLIDDYKFKGHIRLISAQMNRVRNGELYQYICDTKGAFVQPAYEAFRLDCD RVHEVRSAKDRDLPWRPCEIIADGVSGLHIDPYHSDKDADILVNFFDKCNADP SYWDEISQGGQRIYEKYTWKLYSERLMTLTGAYGFWNYVSKLERGDTRYIDM FYALEYP
Research Area	Others
Source	E.coli
Target Names	SUS1
Expression Region	1-218aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	41.3kDa
Protein Length	Full Length
Image	



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

Description

In the general approach to express the recombinant Saccharum officinarum (Sugarcane) SUS1 protein, a plasmid encoding the Saccharum officinarum (Sugarcane) SUS1 protein (1-218aa) is first constructed. The constructed plasmid is then introduced into e.coli cells. Plasmid-containing e.coli cells are screened and cultured under conditions that induce the protein expression. The protein is fused with a N-terminal 6xHis-SUMO tag. Lysing the cultured cells and purifying the resulting recombinant SUS1 protein through affinity purification. The SDS-PAGE analysis is conducted to confirm the presence of the recombinant SUS1 protein and assess its purity. Its purity is over 90%.

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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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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.