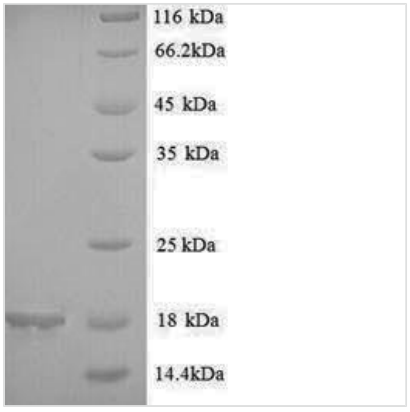
Recombinant Glycine max 2S seed storage albumin protein

Product Code	CSB-YP324829GGV
Relevance	This is a 2S seed storage protein.
Abbreviation	Recombinant Glycine max 2S seed storage albumin protein
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.	P19594
Product Type	Recombinant Proteins
Immunogen Species	Glycine max (Soybean) (Glycine hispida)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SKWQHQQDSCRKQLQGVNLTPCEKHIMEKIQGRGDDDDDDDDDNHILRTMRGRINYIRRNEGKDEDEEEEGHMQKCCTEMSELRSPKCQCKALQKIMENQSEELEEKQKKKMEKELINLATMCRFGPMIQCDLSSDD
Research Area	Others
Source	Yeast
Target Names	N/A
Protein Names	Recommended name: 2S albuminAlternative name(s): GM2S-1Cleaved into the following 2 chains: 1. 2S albumin small chainAlternative name(s): Aspartic acid-rich peptide 2S albumin large chainAlternative name(s): 8 kDa methionine-rich protein
Expression Region	22-158aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	18.2kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The production of this Recombinant Glycine max Musk protein began at the genetic level, where the coding sequence for the Musk protein was first isolated and cloned into an expression plasmid vector. Recombinant DNA technology was used in the process. Next step was cloning. The expression vector must be introduced into the host cell (Yeast) so that the cells could be cultured and expressed the desired 2S albumin protein. And we finally got the recombinant 2S albumin protein with the purity of 90%+ determined by SDS-PAGE.

2S albumins, defined on the basis of their sedimentation coefficient, are a major group of seed storage proteins widely distributed in both mono- and di-cotyledonous plants. As storage proteins, they are deposited in protein bodies of developing seeds and are utilized by the plant as a source of nutrients (amino acids and carbon skeletons) during subsequent germination and seedling growth. Recent findings have demonstrated that 2S albumins can also play a protective role in plants as defensive weapons against fungal attack. In addition to their physiological role in plants, these small globular proteins are becoming of increasing interest in nutritional and clinical studies. The amino acid composition of 2S albumin proteins from many plant species has revealed their high content of sulphur-containing amino acids.

Shelf Life

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