Recombinant Soy Bean P34 Protein, His-tagged

Cat. No. P34Protein-194S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Soy bean P34 Protein epitopes expressed in*E.Coli*contains Soy bean P34 Protein epitopes 214-261, 351-379 amino acids. The protein is fused to a His tag at N-terminus.
Species	Soybean
Source	E.coli
ProteinLength	214-261;351-379 a.a.
Description	The P34 protein is the main allergen for soybean sensitive humans. Soybean protein P34, a thiol protease belonging to the papain family, is a monomeric allergen having an N-terminal amino acid sequence and amino acid composition identical to that of the seed 34kDa protein. It is an insoluble glycoprotein having a pI of 4.5 and a calculated mass of 28.643 Dalton, representing 2–3% of total soybean protein. Upon glycosylation, the mass will be somewhat larger, resulting in a 32kDa band in non-reduced SDS PAGE gels. It exhibits no enzymatic function due to an absence of the catalytic cysteine. P34 is stored in storage vacuoles of soybean cotyledons.
Method	Purified by proprietary chromatographic technique.
Physical Appearance	Use as an antigen in ELISA and Western Blots.
Formulation	50mM Tris-HCl, pH 8.0, 60mM NaCl, 10mM glutathione and 50% glycerol.

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Stability	Five years frozen. One month in solution at room temperature.
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.
Storage	Protein is shipped at ambient temperature. Upon arrival, Store at -20°C

GENE INFORMATION

Gene Name	LOC548062 34 kDa maturing seed vacuolar thiol protease precursor [Glycine max]
Synonyms	LOC548062; 34 kDa maturing seed vacuolar thiol protease precursor; P34 probable thiol protease;EC=3.4.22.-
Gene ID	548062
UniProt ID	P22895

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