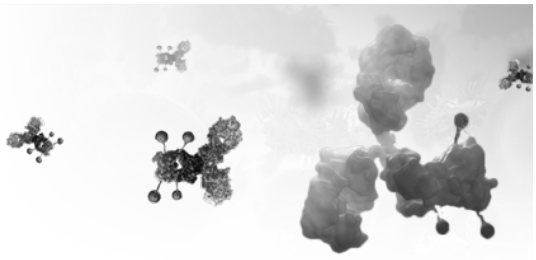

Soybean P34 [GST] (DAG1339)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant P34 protein fused to a GST tag at N-terminus containing 214-261, 351-379 amino acids was expressed in E. coli and purified by proprietary chromatographic technique.
Species	Soybean
Purity	> 95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.
Conjugate	GST
Applications	Use as an antigen in ELISA and Western Blots.
Size	100 µg, 500 µg, 1 mg
Buffer	50mM Tris-HCl, pH 8.0, 60mM NaCl, 10mM glutathione and 50% glycerol.
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	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.
Keywords	Soybean P34 Protein

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