



Product Datasheet

Product Name Recombinant Soybean P34 Protein
Cata No CB500026

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.

The E.Coli derived recombinant protein contains Soybean P34 Protein epitopes 214-261, 351-379

amino acids. The protein is fused to a GST tag at N-terminus

Purity

Protein is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.

Formulation

50mM Tris-HCl, pH 8.0, 60mM NaCl, 10mM glutathione and 50% glycerol.

Stability

Five years frozen. One month in solution at room temperature.

Application

Use as an antigen in ELISA and Western Blots.