



## Soybean P34 [His] (DAG1340)

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

### PRODUCT INFORMATION

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

### BACKGROUND

<b>Introduction</b>	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.
<b>Keywords</b>	Soybean P34 Protein