



LD Biopharma, Inc.
7384 Trade Street, Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Glym4 Protein
Catalog Number: PRP-1985
Manufacturer: LD Biopharma, Inc.

Introduction

Glycine max (Soybean) Glym 4 (Glycine max stress-induced protein SAM22) gene encodes a protein which is the major soy allergen for patients allergic to birch pollen with soy allergy.

Full-length Glym4 gene (157aa) was constructed by codon-optimization gene synthesis technology with 29 aa N-terminal T7 / His / TEV cleavage site Tag. This protein was expressed in *E. coli* as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: Glym4 (SAM22)
Accession Number: P26987
Species: Glycine max (Soybean)
Size: 25 µg / Vial
Composition: 0.25 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Mittag D, et al. *Soybean allergy in patients allergic to birch pollen: clinical investigation and molecular characterization of allergens*. *J. Allergy Clin Immunol.* 113: 148-154. (2004)

Applications

1. May be used as “*research*” reagent for allergic detection assay development.



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2. As a native extracellular domain, may be used as immunogen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGRHHHHHENLYFQGEFGVFTFEDEINSPVAPATLYKALVTDADNVI PKALDS
FKSVENVEGNNGGPGTIKKITFLEDGETKFVLHKIESIDEANLGYSYSVVGGAALPDTAEKITFD
SKLVAGPNGGSAGKLTVKYETKGD AEPNQDELKTGKAKADALFKAIEAYLLAHPDYN