

# Product information



## TPSAB1, 31-275aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1729

**Full name:** Tryptase alpha/beta-1

**NCBI Accession No.:** NP\_003285

**Synonyms:** TPS1, TPS2, TPSB1

**Description:** TPSAB1, also known as tryptase alpha/beta-1, is a tryptase that is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. It is enzymatically active only as a heparin-stabilized tetramer, and it is resistant to all known endogenous proteinase inhibitor. This protein has been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. Recombinant human TPSAB1 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

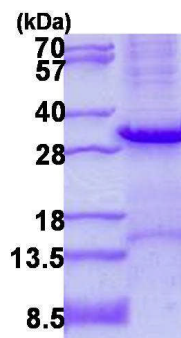
**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

0.4M Urea

**Molecular Weight:** 30.1 kDa(270aa)

**Purity:** > 85% by SDS - PAGE

**Concentration:** 1.0 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHMIVGGQ EAPRSKWPWQ VSLRVHGPYW MHFCGGSLIH PQWVLTAAHC VGPDKDLAA LRVQLREQHL  
YYQDQLLPVS RII VHPQFYT AQIGADIALL ELEEPNVVSS HVHTVTLPPA SETFPPGMPC WVTGWGDVON DERLPPFPPL KQVKVPI MEN  
HICDAKYHLG AYTGDDVRIV RDDMLCAGNT RRDSCQGDGSG GPLVCKVNGT WLQAGVVSWG EGCAQPNRPG IYTRVTYYLD WIHHYVPKKP

### General references:

Tanaka T. *et al.* (1983) *J Biol Chem.* 258(22):13552-7.

Marquardt U. *et al.* (2002) *J Mol Biol.* 321(3):491-502.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246 Fax.: (763) 780-2988

Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)