
Product Data Sheet

Product Name: TPSAB1 Human
 Cat. No.: GP22320
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tryptase Alpha/Beta 1; Tryptase Alpha II; Tryptase Beta-1; Tryptase Alpha-1; Tryptase Alpha/Beta-1; Tryptase-I; TPS1; TPS2; TPSB1; Tryptase-III; Mast Cell Alpha II Tryptase; Mast Cell Beta I Tryptase; EC 3.4.21.59.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGS HMIVGGQ EAPRSKWPWQ VSLRVHGPYW MHFCGGSLIH PQWVLTA AHC VGPDVKD LAA LRVQLREQHL YYQDQLLPVS RIIVHPQFYT AQIGADIALL ELEEPVNVSS HVHTVTLPPA SETFPPGMPC WVTGWGDVDN DERLPPPFPL KQVKVPI MEN HICDAKYHLG AYTGD DVRIV RDDMLCAGNT RRDSCQGD SG GPLVCKVNGT WLQAGV VSWG EGCAQPNRPG IYTRVTYYLD WIHHYVPKKP.		
Formulation	The TPSAB1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Tryptase alpha/beta-1 (TPSAB1) is a tryptase which is the key neutral protease present in mast cells and is discharged upon the coupled activation-degranulation response of this cell type. TPSAB1 is enzymatically active only as a heparin-stabilized tetramer, and is resistant to all known endogenous proteinase inhibitors. TPSAB1 is implicated as a mediator in the pathogenesis of asthma and other allergic and inflammatory disorders.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TPSAB1 Human Recombinant produced in E. coli is a single polypeptide chain containing

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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270 amino acids (31-275) and having a molecular mass of 30.1 kDa. TPSAB1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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