

TPSAB1 Human

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

Catalog #: ENPS-659

For research use only.

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.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSHMIVGGQ EAPRSKWPWQ
VSLRVHGPYW MHFCGGSLIH PQWVLTAAHC VGPDKDLAA LRVQLREQHL YYQDQLLPVS
RIIVHPQFYT AQIGADIALL ELEEPVNVSS HVHTVTLPPA SETFPPGMPC WVTGWGDVDN
DERLPPPFPL KQVKVPI MEN HICDAKYHLG AYTGDDVRIV RDDMLCAGNT RRDSCQGDSG
GPLVCKVNGT WL

Purity: Greater than 85% as determined by SDS-PAGE.

Formulation:

The TPSAB1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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