

TPSB2 Protein, Human, Recombinant (His)

General Information

Synonyms:	Tryptase-2;Tryptase Beta-2;TPS2;TPSB2;Tryptase II;Tryptase β -2
Protein Construction:	Ala19-Pro275
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH29356.1
Molecular Weight:	30-35 KDa (reducing condition)
AA Sequence:	Ala19-Pro275

QC Testing

Biological Activity:	Loaded Anti-Human Tryptase mAb-Fc on AHC Biosensor, can bind Human TPSB2-His with an affinity constant of $<10^{>3}</sup>$ nM as determined in BLI assay (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	<0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Tryptases are Trypsin-like Serine Proteases. β -Tryptases are the main isoenzymes in mast cells. Btryptases form active tetramers with heparin proteoglycan. In the tetramer, the unique arrangement of the active sites facing a narrow central pore, β -Tryptases are resistant to macromolecule protease inhibitors. When mast cells are activated, β -Tryptases are released and participate in provoking inflammatory conditions. β -Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic disorders.

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