

TPSAB1 protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	Tryptase alpha/beta-1;TPSB1;Tryptase I;TPS2;TPS1;Tryptase alpha-1;Tryptase-1;Tryptase α/β -1;Tryptase α -1
Protein Construction:	Ile38-Pro282
Species:	Cynomolgus
Expression Host:	E. coli
Accession:	XP_005590891.2
Molecular Weight:	28.57kDa (predicted). The protein migrates to 30-33kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in 20 mM Tris, 250 mM NaCl, 2 mM CaCl ₂ , 10% Glycerol (pH 8.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. 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

TPSAB1, namely tryptase alpha/beta-1, is a serine protease with trypsin-like activity. TPSAB1 is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. It may play a role in innate immunity. Diseases associated with TPSAB1 include mastocytosis and systemic mastocytosis.

Reference

Jackson NE, et al. Alternate mRNA splicing in multiple human tryptase genes is predicted to regulate tetramer formation. J Biol Chem. 2008 Dec 5;283(49):34178-87.

Hernández-Hernández L, et al. Increased TPSAB1 Copy Number in a Family With Elevated Basal Serum Levels of Tryptase. Front Med (Lausanne). 2021 Apr 13;8:577081.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481