

MBTPS1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	KIAA0091;SKI1;Endopeptidase S1P;S1P;Membrane-bound transcription factor site-1 protease;Subtilisin/kexin-isozyme 1 (SKI-1);MBTPS1
Protein Construction:	218-414 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q14703
Molecular Weight:	37.5 kDa (predicted)
AA Sequence:	DTGLSEKHPHFKNVKERTNWTNERTLDDGLGHGTFVAGVIASMRECQGFAPDAELHIFRVFTNNQVSYTSWF LDAFNAILKKIDVLNLSIGGPDFMDHPFVDKVVWELTANNVIMVSAIGNDGPLYGTLNNPADQMDVIGVGGI DFEDNIARFSSRGMTTWELPGGYGRMKPDIVTYGAGVIRGSGVKGKGCRLSGTS

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Serine protease that cleaves after hydrophobic or small residues, provided that Arg or Lys is in position P4: known substrates are SREBF1/SREBP1, SREBF2/SREBP2, BDNF, GNPTAB, ATF6 and ATF6B. Cleaves substrates after Arg-Ser-Val-Leu (SREBP2), Arg-His-Leu-Leu (ATF6), Arg-Gly-Leu-Thr (BDNF) and its own propeptide after Arg-Arg-Leu-Leu. Catalyzes the first step in the proteolytic activation of the sterol regulatory element-binding proteins (SREBPs)

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SREBF1/SREBP1 and SREBF2/SREBP2. Also mediates the first step in the proteolytic activation of the cyclic AMP-dependent transcription factor ATF-6 (ATF6 and ATF6B). Mediates the protein cleavage of GNPTAB into subunit alpha and beta, thereby participating in biogenesis of lysosomes. Involved in the regulation of M6P-dependent Golgi-to-lysosome trafficking of lysosomal enzymes. It is required for the activation of CREB3L2/BBF2H7, a transcriptional activator of MIA3/TANGO and other genes controlling mega vesicle formation. Therefore, it plays a key role in the regulation of mega vesicle-mediated collagen trafficking.

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