

Recombinant Human MBTPS1 protein, GST-tagged

Cat. No. MBTPS1-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MBTPS1(1 a.a. - 552 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-552 a.a.
Description	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to the cis/medial-Golgi where a second autocatalytic event takes place and the catalytic activity is acquired. It encodes a type 1 membrane bound protease which is ubiquitously expressed and regulates cholesterol or lipid homeostasis via cleavage of substrates at non-basic residues. Mutations in this gene may be associated with lysosomal dysfunction.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	87.7 kDa
AA Sequence	MKLVNIWLLLLVLLCGKKHLGDRLEKKSFEKAPCPGCSHLTLKVEFSSTVVEYIY AFNGYFTAKARNSFISS ALKSSEVDNWRIPRNNPSSDYPSEDFEVIQIKEKQKAGLLT

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LEDHPNIKRVTPQRKVFRLKYAESDPTVPCNET RWSQKWQSSRPLRRASLSLGS
 GFWHATGRHSSRLLRAIPRQVAQTLQADVLWQMGYTGANVRVAVFDTGLSEKH
 PHFKNVKERTNWTNERTLDDGLGHGTFVAGVIASMRECQGFAPDAELHIFRVFTNN
 QVSYASWFLDAFNAILKK IDVLNLSIGGPDFMDHPFVDKVVWELTANNVIMVSAIGN
 DGPLYGTLNNPADQMDVIGVGGIDFEDNIARFSSRGM TTWELPGGYGRMKPDIVTY
 GAGVRGSGVKGGCRALSGTSVASPVVAGAVTLLVSTVQKRELVNPASMKQALIASA
 RRLPGVNMFEQGHGKLDLLRAYQILNSYKPQASLSPSYIDLTECPYMWPYCSQPIYY
 GGMPTVVNVTLNGMGVT GRIVDKPDWQPYLPQNGDNIEVAFSYS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

MBTPS1 membrane-bound transcription factor peptidase, site 1 [Homo sapiens]

Official Symbol

MBTPS1

Synonyms

MBTPS1; membrane-bound transcription factor peptidase, site 1; membrane bound transcription factor protease, site 1; membrane-bound transcription factor site-1 protease; KIAA0091; PCSK8; S1P; SKI 1; site-1 protease; endopeptidase S1P; subtilisin/kexin isozyme-1; subtilisin/kexin-isozyme 1; membrane-bound transcription factor protease, site 1; SKI-1; MGC138711; MGC138712;

Gene ID

8720

mRNA Refseq

NM_003791

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Protein Refseq	NP_003782
MIM	603355
UniProt ID	Q14703
Chromosome Location	16q24
Pathway	Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem; Unfolded Protein Response, organism-specific biosystem;
Function	peptidase activity; serine-type endopeptidase activity;

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