

Recombinant Human MBTPS1, His-tagged

Cat. No. MBTPS1-138H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human Membrane-Bound Transcription Factor Site-1 Protease/MBTPS1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Lys18-Val998) of Human MBTPS1 fused with a polyhistidine tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 18-998 a.a.

Description

Membrane-Bound Transcription Factor Site-1 Protease (MBTPS1) is a member of the peptidase S8 family. MBTPS1 cleaves the endoplasmic reticulum loop of sterol regulatory element binding protein (SREBP) transcription factors. MBTPS1 catalyzes the first step in the proteolytic activation of the sterol regulatory element-binding proteins, but not by nickel or cobalt. MBTPS1 is inhibited by divalent copper and zinc ions and by its prosegment. MBTPS1 has a central role in the regulation of lipid metabolism in cells.

AA Sequence

RAIPRQVAQTLQADVLWQMGYTGANVRVAVFDTGLSEKHPHFKNVKERTNWTNER
 TLDDG LGHG TFVAGVIASMRECQGFAPDAELHIFRVFTNNQVSYTSWFLDAFNyai
 LKKIDVLNL SIGGPDFM DHPFVDKVVWELTANNVIMVSAIGNDGPLYGTLNNPADQM
 DVIGVGGIDFEDN IARFSSRGMTTW ELPGGYGRMKPDIVTYGAGVRGSGVKGGCR
 ALSGTSVASPVVAGAVTL LVSTVQKRELVNPASM KQALIASARRLPGVNMFEQGH

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GKLDLLRAYQILNSYKPQASLSP SYIDLTECPYMWPYCSQPIY YGGMPTVVNVITILN
 GMGVTGRIVDKPDWQPYPQNGDNIE VAFSYSSVLWPWSGYLAISISVTK KAASW
 EGIAQGHVMITVASPAETESKNGAEQTSTVK LPIKVKIIPPRSKRVLWDQYHNLRY
 P PGYFPRDNLRMKNDPLDWNGDHIHTNFRDMYQ HLRSMGYFVEVLGAPFTCFDA
 SQYGTLLMVDS EEEYFP EEIAKLRRDVDNGLSLVIFSDW YNTSVMRKVKFYDENTR
 QWWMPDTGGANIPALNELL SVWNMGFSDGLYEGETLANHDMY YASGCSIAKFP
 EDGVVITQTFKDQGLEVLKQETA VVENVP ILGLYQIPAEGGGRIVLYGD SNCLDDSH
 RQKDCFWLLDALLQYTSYGVTPPSLSHSGNRQRPPS GAGSVTPERMENHNLH RY
 SKVLEAHLGDPKPRPLPACPRLSWAKPQPLNETAPSNLWKHQKLLS IDLDKVVLPN
 FR SNRPQVRPLSPGESGAWDIPGGIMPGRYNQEVDH HHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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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