

# Recombinant Human MBTPS1, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | <p>Recombinant Human Membrane-Bound Transcription Factor Site-1</p> <p>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.</p>                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 18-998 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>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.</p> |
| <b>AA Sequence</b>      | <p>RAIPRQVAQTLQADVLWQMGYTGANVRVAVFDTGLSEKHPHFKNVKERTNWTNER</p> <p>TLDDG LGHG TFVAGVIASMRECQGFAPDAELHIFRVFTNNQVSYTSWFLDAFNyai</p> <p>LKKIDVLNL SIGGPDFM DHPFVDKVVWELTANNVIMVSAIGNDGPLYGTLNNPADQM</p> <p>DVIGVGGIDFEDN IARFSSRGMTTW ELPGGYGRMKPDIVTYGAGVRGSGVKGGCR</p> <p>ALSGTSVASPVVAGAVTL LVSTVQKRELVNPASM KQALIASARRLPGVNMFEQGH</p>                                                                                                                                                                                                     |

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GKLDLLRAYQILNSYKPQASLSP SYIDLTECPYMWPYCSQPIY YGGMPTVVNVITILN  
 GMGVTGRIVDKPDWQPYPQNGDNIE VAFSYSSVLWPWSGYLAISISVTK KAASW  
 EGIAQGHVMITVASPAETESKNGAEQTSTVK LPIKVKIIPPRSKRVLWDQYHNLRY  
 P PGYFPRDNLRMKNDPLDWNGDHIHTNFRDMYQ HLRSMGYFVEVLGAPFTCFDA  
 SQYGTLLMVDS EEEYFP EEIAKLRRDVDNGLSLVIFSDW YNTSVMRKVKFYDENTR  
 QWWMPDTGGANIPALNELL SVWNMGFSDGLYEGETLANHDMY YASGCSIAKFP  
 EDGVVITQTFKDQGLEVLKQETAVVENVP ILGLYQIPAEGGGRIVLYGD SNCLDDSH  
 RQKDCFWLLDALLQYTSYGVT PPSLSHSGNRQRPPS GAGSVTPERMEGNHLH RY  
 SKVLEAHLGDPKPRPLPACPRLSWAKPQPLNETAPSNLWKHQKLLS IDLDKVVLPN  
 FR SNRPQVRPLSPGESGAWDIPGGIMPGRYNQEVVDHHHHHH

**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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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | <a href="#">NP_003782</a>                                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | <a href="#">603355</a>                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | <a href="#">Q14703</a>                                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 16q24                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | peptidase activity; serine-type endopeptidase activity;                                                                                                                                                                                                                                                                                                        |

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