

Recombinant Human MELTF Protein, His-tagged

Cat. No. MELTF-215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MELTF Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Melanotransferrin is a member of the transferrin family of iron-binding proteins, which also includes serum transferrin, lactoferrin, and ovotransferrin, and it is highly expressed on melanoma cells. Melanotransferrin, also designated p97, shares a high degree of homology with transferrin, but does not play a significant role in the uptake of iron. Melanotransferrin utilizes a member of the low-density lipoprotein receptor family for transendothelial transport, which is not as efficient as the transport of transferrin through the corresponding transferrin receptor. The gene encoding human melanotransferrin maps to chromosome 3q29, and is predominantly expressed as either a membrane bound protein or a secreted form of the protein. Melanotransferrin is expressed in brain, where it may be involved in Alzheimer's disease. Melanotransferrin may also protect against membrane-lipid peroxidation, possess a metalloprotease activity, and possibly participate in intracellular adhesion. Further research will be necessary to fully elucidate the functions of this protein.
Molecular Mass	~76 kDa
AA Sequence	MGMEVRWCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQEAD AITLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVVRRSSHVTIDTLKGVKSC

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HTGINRTVGWNVPVGYLVESGRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSESL
 CRLCRGDSSGEGVCDKSPLEYYDYSGAFRCLAEGAGDVAFVKHSTVLENTDGKT
 LPSWGQALLSQDFELLCRDGSRADVTEWRQCHLARVPAHAVVVRADTDGGLIFRLL
 NEGQRLFSHEGSSFQMFSSSEAYGQKDLLFKDSTSELVPIATQTYEAWLGHEYLHAM
 KGLLCDPNRLPPYLRCVLSSTPEIQKCGDMAVAFRRQRLKPEIQCVSAKSPQHCME
 RIQAEQVDAVTLSGEDIYTAGKTYGLVPAAGEHYAPEDSSNSYYVAVVRRDSSHAF
 TLDELRGKRSCHAGFGSPAGWDVPVGALIQRGFIRPKDCDVLTAVERSEFFNASCVPV
 NNPKNYPSSLCALCVGDEQGRNKCVCVNSQERYYYGYRGAFRCLVENAGDVAFVRH
 TTVFDNTNGHNSEPWAAELRSEDYELLCPNGARAEVSQFAACNLAQIPPHAVMVRP
 DTNIFTVYGLLDKAQDLFGDDHNKNGFKMFDSSNYHGQDLLFKDATVRAVPVGEKT
 TYRGWLGLDYVAALEGMSQQC

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

MELTF melanotransferrin [Homo sapiens (human)]

Official Symbol

MELTF

Synonyms

MELTF; melanotransferrin; MTf; MFI2; MTF1; CD228; MAP97; melanotransferrin; antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5; membrane-bound transferrin-like protein

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Gene ID	4241
mRNA Refseq	NM_005929
Protein Refseq	NP_005920
MIM	155750
UniProt ID	P08582

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