

Melanotransferrin/CD228 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76496
Synonyms:	Melanotransferrin; MTF; CD228; MELTF; MF12
Species:	Mouse
Source:	HEK293
Accession:	Q9R0R1 (V20-Q708)
Gene ID:	30060
Molecular Weight:	Approximately 80 kDa due to the glycosylation

PROPERTIES

AA Sequence

```

VMEVQWCTIS DAEQQKCKDM SEAFQGAGIR PSLLCVQGNS
ADHCVQLIKE QKADAITLDG GAIYEAGKEH GLKPVVGEVY
DQDIGTSYYA VAVVRRNSNV TINTLKGVKS CHTGINRTVG
WNVPGYLVE SGHLSVMGCD VLKAVGDYFG GSCVPGTGET
SHSESLCRLC RGDSSGHNVC DKSPLEERYD YSGAFRCLAE
GAGDVAFVKH STVLENTDGN TLP SWGKSLM SEDFQLLCDR
GSRADITEWR RCHLAKVPAH AVVVRGDMDG GLIFQLLNEG
QLLFSHEDSS FQMFSSKAYS QKNLLFKDST LELVPIATQN
YEAWLGQEYL QAMKGLLCDP NRLPHYLRWC VLSAPEIQKC
GDMAVAFSRQ NLKPEIQCVS AESPEHCMEQ IQAGHTDAVT
LRGEDIYRAG KVYGLVPAAG ELYAEEDRSN SYFVVAVARR
DSSYSFTLDE LRGKRSCHPY LGSPAGWEVP IGSLIQRGFI
RPKDCDVLTA VSQFFNASCV PVNNPKNYPS ALCALCVGDE
KGRNKCVGSS QERYYGYS GA FRCLVEHAGD VAFVKHTTVF
ENTNGHNPEP WASHLRWQDY ELLCPNGARA EVDQFQACNL
AQMPSHAVMV RPD TNIFTVY GLLDKAQDLF GDDHNKNGFQ
MFDSSKYHSQ DLLFKDATVR AVPVREKTTY LDWLGPDYVV
ALEGMLSQQ

```

Biological Activity	Measured in a cell proliferation assay using SH-SY5Y cells. The ED ₅₀ for this effect is 1.088 µg/mL, corresponding to a specific activity is 919.118 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

Melanotransferrin/CD228 protein is implicated in cellular iron uptake, where it appears to undergo internalization and subsequent recycling back to the cell membrane. Each subunit of this protein has the capacity to bind a single atom of iron, suggesting its role in intracellular iron transport. Additionally, Melanotransferrin/CD228 could potentially bind zinc, indicating a versatility in metal ion binding capabilities.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA