

Recombinant Human MCFD2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MCFD2-4405H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MCFD2 MS Standard C13 and N15-labeled recombinant protein (NP_644808) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a soluble luminal protein with two calmodulin-like EF-hand motifs at its C-terminus. This protein forms a complex with LMAN1 (lectin mannose binding protein 1; also known as ERGIC-53) that facilitates the transport of coagulation factors V (FV) and VIII (FVIII) from the endoplasmic reticulum to the Golgi apparatus via an endoplasmic reticulum Golgi intermediate compartment (ERGIC). Mutations in this gene cause combined deficiency of FV and FVIII (F5F8D); a rare autosomal recessive bleeding disorder characterized by mild to moderate bleeding and coordinate reduction in plasma FV and FVIII levels. This protein has also been shown to maintain stem cell potential in adult central nervous system and is a marker for testicular germ cell tumors. The 3' UTR of this gene contains a transposon-like human repeat element named 'THE 1'. A processed RNA pseudogene of this gene is on chromosome 6p22.1. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	16.4 kDa

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AA Sequence	MTMRSLLRTPFLCGLLWAFCAPGARAEPAASFSGPGSMGLDKNTVHDQEHIMEH LEGVINKPEAEMSPQELQLHYFKMHDYDGNLLDGLELSTAITHVHKEEGSEQAPLM SEDELINIIDGVLRRDDDKNNDGYIDYAEFAKSLQTRTRPLEQKLISEEDLAANDILDYK DDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MCFD2 multiple coagulation factor deficiency 2 [Homo sapiens (human)]
Official Symbol	MCFD2
Synonyms	MCFD2; multiple coagulation factor deficiency 2; multiple coagulation factor deficiency protein 2; F5F8D; LMAN1IP; SDNSF; neural stem cell derived neuronal survival protein; neural stem cell-derived neuronal survival protein; F5F8D2; DKFZp686G21263;
Gene ID	90411
mRNA Refseq	NM_139279

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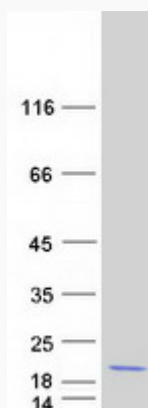
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Protein Refseq NP_644808

MIM 607788

UniProt ID Q8NI22

SDS-PAGE



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