

Product datasheet for PH302230

MCFD2 (NM_139279) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MCFD2 MS Standard C13 and N15-labeled recombinant protein (NP_644808)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202230
Predicted MW:	16.4 kDa
Protein Sequence:	>RC202230 protein sequence Red =Cloning site Green =Tags(s) MTMRSLLRTPFLCGLLWAFCAPGARAEPEAASFQPGSMGLDKNTVHDQEHIMEHLEGVINKPEAEMSPQ ELQLHYFKMHDYDGNLLDGLLELSTAITHVHKEEGSEQAPLMSEDELINIIDGVLRDDDKNNDGYIDYAE FAKSLQ TR TRPLEQ KL I SEED LA AND I LDYK DDDD KV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_644808
RefSeq Size:	4196
RefSeq ORF:	438
Synonyms:	F5F8D; F5F8D2; LMAN1IP; SDNSF
Locus ID:	90411
UniProt ID:	Q8NI22

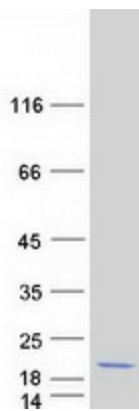


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Cytogenetics: 2p21

Summary: 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. [provided by RefSeq, Apr 2016]

Product images:



Coomassie blue staining of purified MCFD2 protein (Cat# [TP302230]). The protein was produced from HEK293T cells transfected with MCFD2 cDNA clone (Cat# [RC202230]) using MegaTran 2.0 (Cat# [TT210002]).