

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

Cat. No. FMOD-2179H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FMOD MS Standard C13 and N15-labeled recombinant protein (NP_002014) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Fibromodulin belongs to the family of small interstitial proteoglycans. The encoded protein possesses a central region containing leucine-rich repeats with 4 keratan sulfate chains, flanked by terminal domains containing disulphide bonds. Owing to the interaction with type I and type II collagen fibrils and in vitro inhibition of fibrillogenesis, the encoded protein may play a role in the assembly of extracellular matrix. It may also regulate TGF-beta activities by sequestering TGF-beta into the extracellular matrix. Sequence variations in this gene may be associated with the pathogenesis of high myopia. Alternative splicing results in multiple transcript variants.
Molecular Mass	43.2 kDa
AA Sequence	MQWTSLLLLAGLFSLSQAQYEDDPHWWFHYLRSQQSTYYDPYDPYPYETYEPYPY GVDEGPAYTYGSPSPDPDRDCPQECDCPPNFPTAMYCDNRNLKYLFPVPSRMKYV YFQNNQITSIQEGVFDNATGLLWIALHGNQITSDKVGRKVFSLRHLRLYLDHNNLT RMPGPLPRSLRELHLDHNQISRPVNNALEGLENLTALYLQHNEIQEVGSSMRGLRSL

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ILLDLSYNHLRKVPDGLPSALEQLYMEHNNVYTPDSYFRGAPKLLYVRLSHNSLTN
 NGLASNTFNSSSLLELDLSYNQLQKIPPVNTNLENLYLQGNRINEFSISSFCTVVDVV
 NFSKLQVLRLDGNEIKRSAMPADAPLCLRLASLIEITRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

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 FMOD fibromodulin [Homo sapiens (human)]

Official Symbol FMOD

Synonyms FMOD; fibromodulin; fibromodulin proteoglycan; SLRR2E; FM; KSPG fibromodulin; collagen-binding 59 kDa protein; keratan sulfate proteoglycan fibromodulin;

Gene ID 2331

mRNA Refseq NM_002023

Protein Refseq NP_002014

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MIM	600245
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UniProt ID	Q06828
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