

Active Recombinant Full Length Human FMOD Protein, C-Flag-tagged

Cat. No. FMOD-131HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FMOD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	41.2 kDa
AA Sequence	MQWTSLLLLAGLFLSLSQAQYEDDPHWWFHYLRSQQSTYYDPYDPYPYETYEPYPY

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GVDEGPAYTYGSPSP PDPRDCPQECD CPPNFPTAMYCDNRNLKYLPFVPSRMKY
 VYFQNNQITSIQEGVFDNATGLLWIALHGNQ ITSDKVGRKVFSLRHLERLYLDHNN
 LTRMPGPLPRSLRELHLDHNQISRVPNNALEGLNLTALYLQHN EIQEVGSSMRGL
 RSLILLDLSYNHLRKVPDGLPSALEQLYMEHNNVYTVPDSYFRGAPKLLYVRLSHNS
 L TNNGLASNTFNSSSLELDLSYNQLQKIPPVNTNLENLYLQGNRINEFSISSFCTVV
 DVVNFSKLQVLRL
 DGNEIKRSAMPADAPLCLRLASLIEITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Full Length	Full L.

GENE INFORMATION

Gene Name	FMOD fibromodulin [Homo sapiens (human)]
Official Symbol	FMOD
Synonyms	FM; SLRR2E

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Gene ID	2331
mRNA Refseq	NM_002023.5
Protein Refseq	NP_002014.2
MIM	600245
UniProt ID	Q06828

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