

Recombinant Human FMOD Protein, Fc-tagged

Cat. No. FMOD-3993H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FMOD(Met1-Ile376) fused with the Fc region of human IgG1 at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Ile376
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.
Predicted N Terminal	Gln 19
Form	Lyophilized from sterile PBS, pH 7.4. 1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

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Molecular Mass	The recombinant human FMOD comprises 599 amino acids and has a predicted molecular mass of 68.2 kDa.
Endotoxin	<1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	FMOD fibromodulin [Homo sapiens]
Official Symbol	FMOD
Synonyms	FMOD; fibromodulin; fibromodulin proteoglycan; SLRR2E; FM; KSPG fibromodulin; collagen-binding 59 kDa protein; keratan sulfate proteoglycan fibromodulin;
Gene ID	2331

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mRNA Refseq	NM_002023
Protein Refseq	NP_002014
MIM	600245
UniProt ID	Q06828

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