Active Recombinant Human FBN1 Protein, Fc-tagged

Cat. No. FBN1-01H **Lot. No.** (See product label)

SPECIFICATION

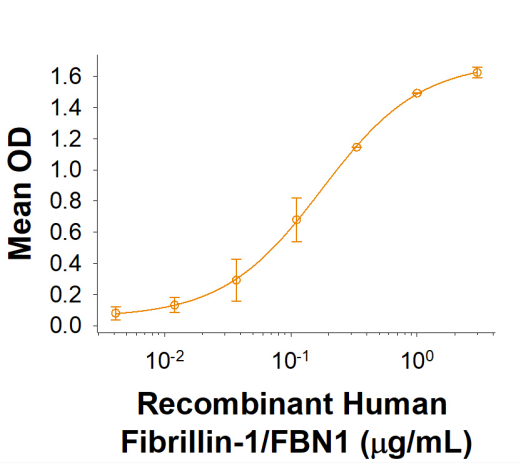
Product Overview	Recombinant Human Fibrillin-1 (Ala25-Thr660) protein with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	25-660 a.a.
Description	This gene encodes a member of the fibrillin family of proteins. The encoded preproprotein is proteolytically processed to generate two proteins including the extracellular matrix component fibrillin-1 and the protein hormone asprosin. Fibrillin-1 is an extracellular matrix glycoprotein that serves as a structural component of calcium-binding microfibrils. These microfibrils provide force-bearing structural support in elastic and nonelastic connective tissue throughout the body. Asprosin, secreted by white adipose tissue, has been shown to regulate glucose homeostasis. Mutations in this gene are associated with Marfan syndrome and the related MASS phenotype, as well as ectopia lentis syndrome, Weill-Marchesani syndrome, Shprintzen-Goldberg syndrome and neonatal progeroid syndrome.
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human MFAP4 is immobilized at 0.5 μg/mL (100 μL/well), the concentration of Recombinant Human Fibrillin-1/FBN1 Fc Chimera that produces 50% of the optimal binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	response is 0.1-0.6 μg/mL.
Molecular Mass	95 kDa
N-terminal Sequence Analysis	Ala25
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

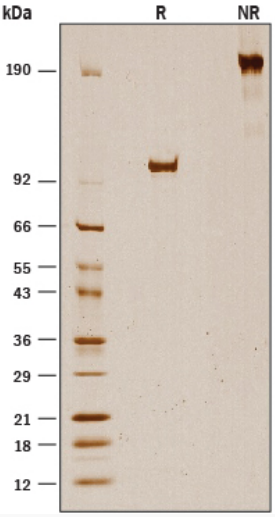
GENE INFORMATION

Gene Name	FBN1 fibrillin 1 [Homo sapiens (human)]
Official Symbol	FBN1
Synonyms	FBN1; fibrillin 1; FBN; SGS; WMS; MASS; MFLS; MFS1; OCTD; SSKS; WMS2; ACMICD; ECTOL1; GPHYSD2; fibrillin-1; asprosin; epididymis secretory sperm binding protein; fibrillin 15; fibrillin-1 preproprotein

Gene ID	2200
mRNA Refseq	NM_000138
Protein Refseq	NP_000129
MIM	134797
UniProt ID	P35555
Binding Activity	 When Recombinant Human MFAP4 is coated at 0.5 μg/mL, 100 μL/well, Recombinant Human Fibrillin-1/FBN1 Fc Chimera binds with an ED50 of 0.1-0.6 μg/mL.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE



1 μg/lane of Recombinant Human Fibrillin-1/FBN1 Fc Chimera was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing bands at 97-108 kDa and 190-220 kDa, respectively.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA