

Active Recombinant Human Fibulin 5 Protein, HA-tagged

Cat. No. FBLN5-3882H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Fibulin 5 Protein (Gln24-Phe448) with an N-terminal HA tag was expressed in Human embryonic kidney cell.

Species Human

Source HEK293

ProteinLength 24-448

Description The protein encoded by this gene is a secreted, extracellular matrix protein containing an Arg-Gly-Asp (RGD) motif and calcium-binding EGF-like domains. It promotes adhesion of endothelial cells through interaction of integrins and the RGD motif. It is prominently expressed in developing arteries but less so in adult vessels. However, its expression is reinduced in balloon-injured vessels and atherosclerotic lesions, notably in intimal vascular smooth muscle cells and endothelial cells. Therefore, the protein encoded by this gene may play a role in vascular development and remodeling. Defects in this gene are a cause of autosomal dominant cutis laxa, autosomal recessive cutis laxa type I (CL type I), and age-related macular degeneration type 3 (ARMD3).

Form Lyophilized

Bio-activity Measured by the ability of the immobilized protein to enhance the adhesion of HUVEC human umbilical vein endothelial cells. The ED50 for this effect is 15-90 ng/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

Molecular Mass	49 kDa
N-terminal Sequence Analysis	Tyr
Endotoxin	<0.1 EU/μg of the protein by the LAL method.
Purity	>90% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
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 MOPS, NaCl, EDTA and CHAPS with Trehalose.
Reconstitution	Reconstitute at 500 μg/mL in water.

GENE INFORMATION

Gene Name	FBLN5 fibulin 5 [Homo sapiens (human)]
Official Symbol	FBLN5
Synonyms	FBLN5; fibulin 5; EVEC; UP50; ADCL2; ARMD3; DANCE; ARCL1A; FIBL-5; HNARMD; fibulin-5; developmental arteries and neural crest EGF-like protein; embryonic vascular EGF-like repeat-containing protein; testis tissue sperm-binding protein Li 75n; urine p50 protein

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Gene ID	10516
mRNA Refseq	NM_006329
Protein Refseq	NP_006320
MIM	604580
UniProt ID	Q9UBX5

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