

Recombinant Human Transforming Growth Factor, Beta-induced, 68kDa

Cat. No. TGFBI-149H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BIGH3 protein was expressed in E. coli and purified by using conventional chromatography techniques(182 aa, 19.9 kDa).
Species	Human
Source	E.coli
Description	BIGH3, also known as TGFBI and Beta ig-h3, is an extracellular matrix protein induced by transforming growth factor(TGF)-beta 1. BIGH3 protein is involved in cell growth, cell differentiation, wound healing and cell adhesion. In addition, some missense mutations of BIGH3 were identified in families affected with human autosomal dominant corneal dystrophies. BIGH3 gene encodes for a 683 amino-acid protein containing an RGD motif and four internal repeated domains which have highly conserved sequences founded in several species (Fasciclin domain).
Formulation	Liquid. In 20 mM Tris-HCl (pH 8.0) containing 1 mM EDTA, 0.1 mM PMSF, 20% Glycerol.
Molecular Weight	19.9 kDa (182 aa). (Real molecular size on SDS-PAGE will be shift up).
Purity	> 95% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).

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Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Amino acid Sequence	MGTVM DV LKG DNRFSMLVAA IQSAGLTETL NREGVYTVFA PTNEAFRALP PRERSLLGD AKELANILKY HIGDEILVSG GIGALVRLKS LQGDKLEVSL KNNVSVNKE PVAEPDIMAT NGVVHVITNV LQPPANRPQE RGDELADSAL EIFKQASAFS RASQRSVRLA PVYQKLLERM KH
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	TGFBI transforming growth factor, beta-induced, 68kDa [Homo sapiens]
Synonyms	TGFBI; BIGH3; CDB1; CDG2; CDGG1; CSD; CSD1; CSD2; CSD3; EBMD; LCD1; kerato-epithelin; RGD-containing collagen-associated protein; RGD-CAP; Beta ig-h3; transforming growth factor, beta-induced, 68kDa.
Gene ID	7045
mRNA Refseq	NM_000358
Protein Refseq	NP_000349
MIM	601692
UniProt ID	Q15582
Chromosome Location	5q31

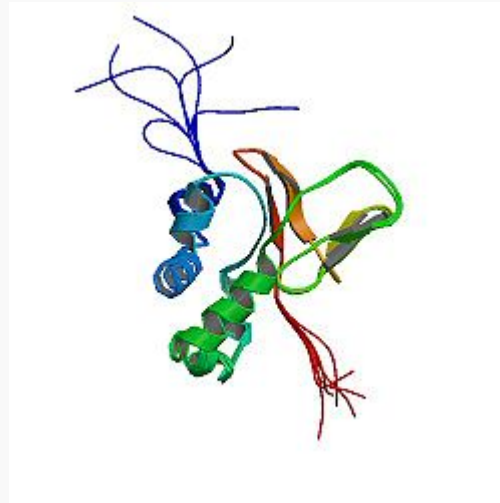
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Function integrin binding; protein binding.

PDBrendering based on 1x3b. Available structures: 1x3b.



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