

Recombinant human BIGH3/TGFBI protein

Catalog Number: BIG0905

PRODUCT INFORMATION

Expression system

E.coli

Domain

502-683aa

UniProt No.

Q15582

NCBI Accession No.

NP_000349

Alternative Names

Transforming growth factor-beta-induced protein ig-h3, Beta ig-h3, Kerato-epithelin, RGD-containing collagen-associated protein, RGD-CAP, BIGH3, CSD3, LCD1, CSD1, CSD2, Transforming growth factor, Beta-induced, 68kD, CDB1, CDGG1

PRODUCT SPECIFICATION

Molecular Weight

19.9 kDa (182aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM EDTA 0.1mM PMSF, 20% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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). Recombinant human BIGH3 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

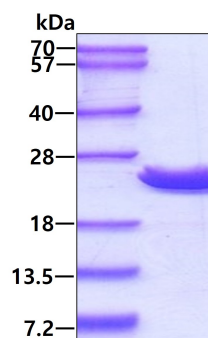
MGTVM DV LKG DNRFSMLVAA IQSAGLTETL NREGVYTVFA PTNEAFRALP PRERSRLLGD AKELANILKY HIGDEILVSG
GIGALVRLKS LQGDKLEVSL KNNVSVNKE PVAEPDIMAT NGVVHVITNV LQPPANRPQE RGDELADSAL EIFKQASAFS
RASQRSVRLA PVYQKLLERM KH

General References

Billings PC., et al. (2002) *J Biol Chem.* 277, 28003-9.
Munier FL., et al. (2002) *Invest Ophthalmol Vis Sci.* 43, 949-54.
Kim JE., et al. (2000) *J Biol Chem.* 275, 30907-15.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.