

# Recombinant human BIGH3/TGFBI protein

Catalog Number: BIG0601

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

502-636aa

### UniProt No.

Q15582

### NCBI Accession No.

NP\_000349.1

### 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

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### Molecular Weight

14.5 kDa (135aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0)

### Purity

> 95% by SDS-PAGE

### 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

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### Description

BIGH3, also known as TGFBI and betaig-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

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motif and four internal repeated domains which have highly conserved sequences founded in several species (Fasciclin domain). Recombinant human BIGH3 protein (fourth FAS domain) was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

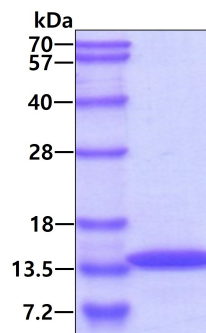
MGTVM DV LKG DNRFSMLVAA IQSAGLTETL NREGVYTVFA PTNEAFRALP PRERSRL LGD AKELANILKY HIGDEILVSG  
GIGALVRLKS LQGD KLEVSL KNNVVS VNKE PVAEPDIMAT NGVVHVITNV LQPPA

## General References

Billings PC, et al. (2002). *J Biol Chem.* 277. 28003-28009  
Munier FL, et al. (2002). *Invest Ophthalmol Vis Sci.* 43.949-954.  
Jung-Eun Kim, et al.(2000) *J Biol Chem.* 275. 30907-30915

## DATA

### SDS-PAGE



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