

Recombinant human TGF-beta RII protein

Catalog Number: ATGP4146

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-166aa

UniProt No.

P37173

NCBI Accession No.

NP_003233.4

Alternative Names

TGF-beta receptor type-2 isoform B, TGFBR2, AAT3, FAA3, LDS1B, LDS2, LDS2B, MFS2, RIIC, TAAD2, TGF beta-RII, TGFR-2, TGF-beta receptor type-2, TGF-beta type II receptor, Transforming growth factor-beta receptor type II

PRODUCT SPECIFICATION

Molecular Weight

43.3 kDa (383aa)

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Biological Activity

Measured by its binding ability in a functional ELISA with Human TGF-beta3. The ED50 range \leq 1 ug/ml.

Tag

hIgG-His-Tag

Application

SDS-PAGE, Bioactivity

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

TGFBR2, as known as TGF-beta receptor type-2 isoform B, is a member of the serine and threonine protein kinase family and the TGF beta receptor subfamily. The type-2 receptor binds TGF-beta1 and TGF-beta3 with high affinity, and TGF-beta2 with a much lower affinity. It forms a heterodimeric complex with type1 receptor and is essential for signal transduction. Also, this protein may play an important role in TGF-beta2 binding and signaling in cells lacking TGFBR3. Recombinant human TGFBR2, fused to hIlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

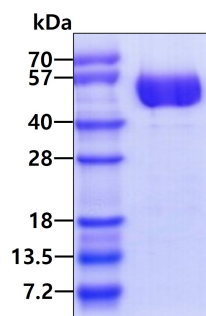
TIPPHVQKSV NNDMIVTDNN GAVKFPQLCK FCDVRFSTCD NQKSCMSNCS ITSICEKPQE VCVAVWRKND ENITLETVCH
 DPKLPYHDFI LEDAASPKCI MKEKKKPGET FFMCS CSSDE CNDNIIFSEE YNTSNPDLLL VIFQ<LEPKSC DKTHTCPPCP
 APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH
 QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN
 YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSV MHE ALHNHYTQKS LSLSPGKHHH HHH>

General References

Wrana JL., et al. (1992) Cell 71:1003-1014.
 Halper B., et al. (2015) Exerc. Immunol. Rev. 21:154-163.

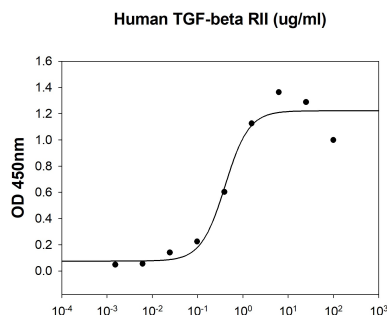
DATA

SDS-PAGE



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

Biological Activity



Human TGF-beta3 is coated at 2 ug/ml (100 ul/well) can bind Human TGF-beta RII. The ED50 range \leq 1 ug/ml.