Recombinant human TGF-beta RII protein

Catalog Number: ATGP3355

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
23-166aa

UniProt No.
P37173

NCBI Accession No.
NP_003233

Alternative Names
TGF-beta receptor type-2 isoform B, TGFBR2, AAT3, FAA3, LDS1B, LDS2, LDS2B, MFS2, RIIC, TAAD2, TGF beta-RII, TGFR-2

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)

Tag
hIgG-His-Tag

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
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

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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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

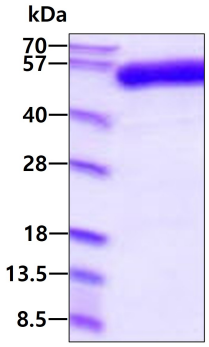
TIPPHVQKSV NNDMIVTDNN GAVKFPQLCK FCDVRFSTCD NQKSCMSNCS ITSICEKPQE VCVAVWRKND ENITLETVCH DPKLPYHDFI LEDAASPKCI MKEKKKPGET FFMCSCSSDE CNDNIIFSEE YNTSNPDLLL VIFQ<LEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTPPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE 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.