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Elabscience Biotechnology Inc.

Elabscience®

Recombinant Mouse Transforming Growth Factor-Beta Receptor Type II/TGFBR2 (C-Fc)

Catalog No. PKSM041417

Description

Synonyms	TGF-beta receptor type-2; TGFR-2; TGF-beta type II receptor; Transforming growth factor-beta receptor type II; TGF-beta receptor type II; TbetaR-II; Tgfbr2
Species	Mouse
Expression_host	Human Cells
Sequence	Ile24-Asp184
Accession	Q62312
Mol_Mass	45 kDa
AP_Mol_Mass	60-75 kDa
Tag	C-Fc

Properties

Purity	>95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg as determined by the LAL method.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Transforming growth factor-β (TGF-β) is an essential regulator in the processes of development, cell proliferation, and extracellular matrix deposition. TGF-β regulates cellular processes by binding to three high-affinity cell surface receptors: TGF-β receptor type I (TGF-β-RI), TGF-β receptor type II (TGF-β-RII), and TGF-ββ receptor type III (TGF-β-RIII). TGF-β RII is consists of a C-terminal protein kinase domain and an N-terminal ectodomain and belongs to transforming growth factor-beta (TGF-β) receptor subfamily. TGF-β RII has a protein kinase domain which can form a heterodimeric complex with another receptor protein and bind TGF-beta. This receptor/ligand complex phosphorylates protein will enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation.

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