

Recombinant Human transforming growth factor beta receptor 2 Protein, Tag Free

Cat. No. TGFBR2-028H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human TGF-beta RII protein (P37173) (Thr 23-Gln 166) without tag was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

23-166aa

Description

Transforming growth factor, beta receptor II (70/80kDa) is a TGF beta receptor. TGFBR2 is its human gene. It is a tumor suppressor gene. This gene encodes a member of the serine/threonine protein kinase family and the TGFB receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan syndrome, Loeys-Deitz aortic aneurysm syndrome, Osler-Weber-Rendu syndrome, and the development of various types of tumors. At least 73 disease-causing mutations in this gene have been discovered. Alternatively spliced transcript variants encoding different isoforms have been characterized.

Tag

Non

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Molecular Mass	16.4 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	TGFBR2 transforming growth factor beta receptor 2 [Homo sapiens (human)]
Official Symbol	TGFBR2
Synonyms	TGFBR2; transforming growth factor, beta receptor II (70/80kDa); MFS2, transforming growth factor, beta receptor II (70 80kD); TGF-beta receptor type-2; tbetaR-II; TGF-beta receptor type II; TGF-beta type II receptor; TGF-beta receptor type IIB; transforming growth factor-beta receptor type II; transforming growth factor beta receptor type IIC; transforming growth factor, beta receptor II (70/80kDa) isoform 1; transforming growth factor, beta receptor II (70/80kDa) isoform 2; AAT3; FAA3; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TGFR-2; TGFbeta-RII;
Gene ID	7048

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mRNA Refseq	NM_001024847
Protein Refseq	NP_001020018
MIM	190182
UniProt ID	P37173

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