

Recombinant Human TGFBR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TGFBR1-4379H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

TGFBR1 MS Standard C13 and N15-labeled recombinant protein (NP_004603) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

The protein encoded by this gene forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene.

Molecular Mass

55.96 kDa

AA Sequence

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MEAAVAAPRPRLLLLVAAAAAAAAAALLPGATALQCFCHLCTKDNFTCVTDGLCFVS
VTETTDKVIHNSMCIAEIDLIPRDRPFVFCAPSSKTGSVTTTYCCNQDHCNKIELPTTVK
SSPGLGPVELAAVIAGPVCFCVCSLMLMVYICHNRTVIHHRVPNEEDPSLDRPFISEG
TTLKDLIYDMTTSGSGSGLPLLVQRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAV
KIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVS DYHEHGSL
FDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGT
CCIADLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDDSDINMKHFESFKRADIYAM
```

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GLVFWEIARRCSIGGIHEDYQLPYYDLVPSDPSVEEMRKVVCEQKLRPNIPNRWQS
 CEALRVMKIMRECWYANGAARLTALRIKKTLSQLSQQEGIKMTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [TGFB1 transforming growth factor beta receptor 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [TGFB1](#)

Synonyms TGFB1; transforming growth factor, beta receptor 1; transforming growth factor, beta receptor I (activin A receptor type II like kinase, 53kD); TGF-beta receptor type-1; activin A receptor type II like kinase; 53kDa; ACVRLK4; ALK 5; tbetaR-I; TGF-beta receptor type I; TGF-beta type I receptor; activin receptor-like kinase 5; transforming growth factor beta receptor I; serine/threonine-protein kinase receptor R4; activin A receptor type II-like kinase, 53kD; activin A receptor type II-like kinase, 53kDa; transforming growth factor-beta receptor type I; activin A receptor type II-like protein kinase of 53kD; transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD); AAT5; ALK5; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1;

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Gene ID 7046

mRNA Refseq NM_004612

Protein Refseq NP_004603

MIM 190181

UniProt ID P36897

SDS-PAGE



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