

## Recombinant Human TGFB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TGFB1-4379H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TGFB1 MS Standard C13 and N15-labeled recombinant protein (NP_004603) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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.                               |
| <b>Molecular Mass</b>   | 55.96 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | <p>MEAAVAAPRPRLLLLVLAAAAAAAALLPGATALQCFCHLCTKDNFTCVTDGLCFVS</p> <p>VTETTDKVIHNSMCIAEIDLPRDRPFVFCAPSSKTGSVTTTYCCNQDHCNKIELPTTVK</p> <p>SSPGLGPVELAAVIAGPVCFCISLMLMVYICHNRTVIHHRVPNEEDPSLDRPFISEG</p> <p>TTLKDLIYDMTTSGSGSGLPLLVRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAV</p> <p>KIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVS DYHEHGSL</p> <p>FDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGT</p> <p>CCIADLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDD SINMKHFESFKRADIYAM</p> |

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GLVFWEIARRCSIGGIHEDYQLPYYDLVPSDPSVEEMRKVVCEQKLRPNIPNRWQS  
CEALRVMAKIMRECWYANGAARLTALRIKKTLSQLSQQEGIKMTRTRPLEQKLISEE  
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) ]

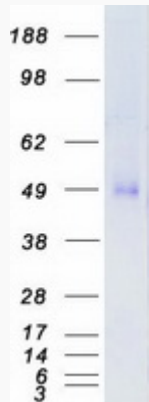
**Official Symbol** **TGFB1**

**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       |  |