

TGFBR2 Human

Description: TGFBR2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain encoding 133 amino acids (27-159 a.a.), the extracellular domain of TGFBR2, having a molecular mass of 15.1 kDa. TGFBR2 is purified by proprietary chromatographic techniques

Synonyms: AAT3, FAA3, MFS2, RIIC, LDS1B, LDS2B, TAAD2, TGFR-2, TGFbeta-RII, TGFBR-2, TGF-beta receptor type-2, Transforming growth factor-beta receptor type II, TGF-beta receptor type II, TGF-beta type II receptor, TbetaR-II, TGFBR2.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: HVQK SVNNDMIVTD NNGAVKFPQL CKFCDVRFST CDNQKSCMSN
CSITSICEKP QEVCVAVWRK NDENITLETV CHDPKLPYHD FILEDAASPK CIMKEKKKPG
ETFFMCSCSS DECNDNIIFS EYNTSNPD

Purity: Greater than 97.0% as determined by SDS-PAGE.

Formulation:

Lyophilized from a 0.2 m filtered solution in buffer containing 150mM NaCl & 50mM sodium phosphate buffer pH-7.5.

Stability:

Lyophilized TGFBR2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFBR2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized TGFBR2 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

TGFBR2 is part of the Ser/Thr protein kinase family and the TGFB receptor subfamily. TGFBR2 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 TGFBR2 gene have been associated with Marfan syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. TGFBR2 expression is increased in oral squamous cell carcinoma cells. TGFBR2 attenuates the biological activities of TGF-beta in colorectal cancer. TGFBR2 expression is decreased by IL-1beta while inducing Sp3 via NFkappaB. TGFB2 and TGFBR2 are involved in the antiestrogenic activity of tamoxifen metabolites in breast cancer.

Biological Activity:

In ELISA assay, concentrations 0.5-1



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