

32-3120: TGFR2 Recombinant Protein

Alternative Name : AAT3,FAA3,MFS2,RIIC,LDS1B,LDS2B,TAAD2,TGFR-2,TGFbeta-RII,TGFR-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,TGFR2.

Description

Source : Escherichia Coli. TGFR2 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 TGFR2, having a molecular mass of 15.1 kDa.TGFR2 is purified by proprietary chromatographic techniques TGFR2 is part of the Ser/Thr protein kinase family and the TGFβ receptor subfamily. TGFR2 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 TGFR2 gene have been associated with Marfan syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. TGFR2 expression is increased in oral squamous cell carcinoma cells. TGFR2 attenuates the biological activities of TGF-beta in colorectal cancer. TGFR2 expression is decreased by IL-1β while inducing Sp3 via NFκB. TGFβ2 and TGFR2 are involved in the antiestrogenic activity of tamoxifen metabolites in breast cancer.

Product Info

Amount : 10 µg
Purification : Greater than 97.0% as determined by SDS-PAGE.
Content : Lyophilized from a 0.2µm filtered solution in buffer containing 150mM NaCl & 50mM sodium phosphate buffer pH-7.5.
Storage condition : Lyophilized TGFR2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFR2 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.
Amino Acid : HVQK SVNNDMIVTD NNGAVKFPQL CKFCDVRFST CDNQKSCMSN CSITSICEKP
 QEVCVAVWRK NDENITLETV CHDPKLPYHD FILEDAASPK CIMKEKKPG ETFFMCSCSS
 DECNDNIIFS EYNTSNPD

Application Note

It is recommended to reconstitute the lyophilized TGFR2 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. In ELISA assay, concentrations 0.5-1µg/ml can be used for TGF-beta measurements

