

32-3120: TGFB2 Recombinant Protein

Alternative Name : AAT3,FAA3,MFS2,RIIC,LDS1B,LDS2B,TAAD2,TGFR-2,TGFBeta-RII,TGFB2,TGF-beta receptor type-2,Transforming growth factor-beta receptor type II,TGF-beta receptor type II,TGF-beta type II receptor,TbetaR-II,TGFB2.

Description

Source : Escherichia Coli. TGFB2 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 TGFB2, having a molecular mass of 15.1 kDa. TGFB2 is purified by proprietary chromatographic techniques TGFB2 is part of the Ser/Thr protein kinase family and the TGFB receptor subfamily. TGFB2 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 TGFB2 gene have been associated with Marfan syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. TGFB2 expression is increased in oral squamous cell carcinoma cells. TGFB2 attenuates the biological activities of TGF-beta in colorectal cancer. TGFB2 expression is decreased by IL-1beta while inducing Sp3 via NFkappaB. TGFB2 and TGFB2 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 TGFB2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFB2 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 CIMKEKKKPG ETFFMCSCSS DECNDNIIFS EEYNTSNPD

Application Note

It is recommended to reconstitute the lyophilized TGFB2 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

