

32-13010: TGFB2 Human, His

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: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

TGFB2 is part of the Ser/Thr protein kinase family and the TGFβ receptor subfamily. TGFB2 is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-β. 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-β in colorectal cancer. TGFB2 expression is decreased by IL-1β while inducing Sp3 via NFκB. TGFB2 and TGFB2 are involved in the antiestrogenic activity of tamoxifen metabolites in breast cancer.

TGFB2 Human Recombinant produced in Sf9 Baculovirus cells is a single, non-glycosylated polypeptide chain containing 383 amino acids (23-166a.a) and having a molecular mass of 43.3kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). TGFB2 is expressed with a 239aa hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95% as determined by SDS-PAGE.

Content : The TGFB2 solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : TIPPHVQKSV NNDMIVTDNN GAVKFPQLCK FCDVRFSTCD NQKSCMSNCS ITSICEKPQE VCVAVWRKND ENITLETVCH DPKLPYHDFI LEDAASPKCI MKEKKKPGET FFMCS CSSDE CNDNIIFSEE YNTSNPDLLL VIFQLEPKSC DKTHTCPPCP APELLGGPSV FLFPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTPPVLD S DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGKHHH HHH.