
Product Data Sheet

Product Name: TGFBR2 Human, His

Cat. No.: GP22638

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	TIPPHVQKSVNNDMIVTDNN GAVKFPQLCK FCDVRFSTCD NQKSCMSNCS ITSICEKPQE VCVAVWRKND ENITLETVCHDPKLPYHDFI LEDAASPKCI MKEKKKPGET FFMCS CSSDE CNDNIIFSEE YNTSNPDL VIFQLEPKSCDKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTKPREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTKNQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSV MHEALHNHYTQKS LSLSPGKHHH HHH.		
Formulation	The TGFBR2 solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Stability

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.

Background

TGFBR2 Human Recombinant produced in in Sf9 Baculoviruscells is a single, non-glycosylated polypeptide chain containing 383 aminoacids (23-166a.a) and having a molecular mass of 43.3kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). TGFBR2 is expressed with a 239aa hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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