
Product Data Sheet

Product Name: TGFBR2 Human

Cat. No.: GP22637

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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	HVQK SVNNDMIVTD NNGAVKFPQL CKFCDVRFST CDNQKSCMSN CSITSICEKP QEVCVAVWRK NDENITLETV CHDPKLPYHD FILEDAASPK CIMKEKKKPG ETTFFMCSCSS DECNDNIIFS EEYNTSNPD		
Solubility	It is recommended to reconstitute the lyophilized TGFBR2 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2 μl filtered solution in buffer containing 150mM NaCl & 50mM sodium phosphate buffer pH-7.5.		

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.

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

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Biological Activity

In ELISA assay, concentrations 0.5-1 μ g/ml can be used for TGF-beta measurements

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.

Background

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

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