Datasheet for ABIN1112031

TGFB3 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	TGFB3
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFB3 protein is labelled with His tag.
Application:	Western Blotting (WB), Immunogen (Imm)

Product Details

Sequence:	HHHHHHALDT NYCFRNLEEN CCVRPLYIDF RQDLGWKWVH EPKGYYANFC SGPCPYLRSA DTTHSTVLGL YNTLNPEASA SPCCVPQDLE PLTILYYVGR TPKVEQLSNM VVKSCKCS
Specificity:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific antibody TGF-beta3.
Characteristics:	Human recombinant protein expressed in Nicotiana benthamiana. Recombinant human TGF beta 3 contains a 6-His tag at the N-terminal end, is produced by transient expression in non-transgenic plants. This product contains no animal-derived components or impurities. Animal free product. Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific antibody TGF-beta3. Molecular formula: C600H902N166O174S10.

Product Details

	Isoelectric Point: 6,75. Extinction coefficient: E 0.1 % (1g/L) = 1.72 (A 280 nm). This product contains no animal-derived components or impurities. It is produced by transient expression of TGF-beta3 in non-transgenic plants.
Purification:	Recombinant human TGF-beta3 contains a 6-His-tag at the N-terminal end and is purified by sequential chromatography (FPLC).
Purity:	> 97 % by SDS-PAGE gel
Endotoxin Level:	< 0.04 EU/µg protein (LAL method)

Target Details

Target:	TGFB3
Alternative Name:	TGF beta 3 (TGFB3 Products)
Background:	Synonyms: Transforming growth factor beta-3, TGF-beta-3 Recombinant human TGF-beta3 is a 27.2 kDa protein composed of two identical 118 amino acid peptide chains linked by a single disulphide bond. Transforming growth factor-beta is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homo-dimmer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF-beta (TGF-beta1, TGF-beta2 and TGF-beta3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
Molecular Weight:	27.2 kDa
Gene ID:	7043, 190230
Pathways:	Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response, Protein targeting to Nucleus

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized

Handling

Reconstitution:	Lyophilized protein should be reconstituted in water following instructions of batch Quality Control sheet. At higher concentrations the solubility may be reduced and multimers generated. Optimal concentration should be determined for specific application and cell lines.
Concentration:	50 ng/µL
Buffer:	Tris HCl 0.05 M buffer at pH 7.4.
Handling Advice:	Reconstituted protein should be stored in working aliquots at -20 °C and it is recommended to add a carrier protein (0.1 % HSA or BSA). Repeated freezing and thawing is not recommended.
Storage:	4 °C

Publications

Product cited in:	Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) (PubMed). Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) (PubMed).