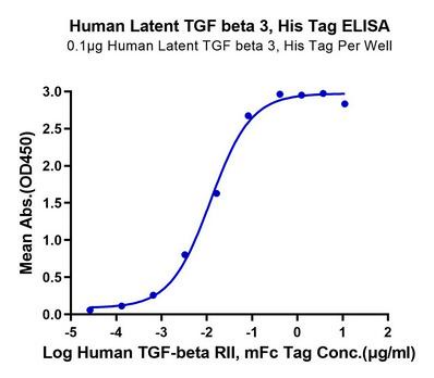
Bioactive HuPro®

TGFB3 (Human) Recombinant Protein

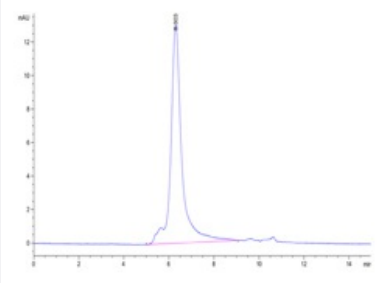
Catalog # P9732 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human Latent TGF beta 3, His Tag at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Human TGF-beta RII, mFc Tag with the EC50 of 12.1 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human Latent TGF beta 3 is greater than 95% as determined by SEC-HPLC.

Specification

Product Description	Human TGFB3 (P10600-1, 24 a.a. - 412 a.a.) partial recombinant protein with His tag at N-terminus expressed in HEK293 cells.
Sequence	LSTCTTLDFGHIKKKRVEAIRGQILSKLRLTSPPEPTVMTHVPYQVLALYNSTRELLEEMHGEREEG CTQENTESEYYAKEIHKFDMIQGLAEHNELAVCPKGITSKVFRFNVSSVEKNRTNLFRAEFRVLRV PNPSSKRNEQRIELFQILRPDEHIAKQRYIGGKNLPTRGTAEWLSFDVTDTVREWLLRRESNLGLEI SIHCPCHTFQPNGDILENIHEVMEIKFKGVDNEDDHGRGDLGRLKKQKDHHNPHLILMMIPPHRLD NPGQGGQRKKRALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYYANFCSGPCPYLR SADTTHSTVLGLYNTLNPEASASPCCVPQDLEPLTILYYVGRTPKVEQLSNMVVKSCKCS
Host	Human

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Theoretical MW (kDa)	45.9
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 12.1 ng/mL, messured by ELISA at 1 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human Latent TGF beta 3 is greater than 95% as determined by SEC-HPLC.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human Latent TGF beta 3, His Tag at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Human TGF-beta RII, mFc Tag with the EC50 of 12.1 ng/mL determined by ELISA.

- SDS-PAGE

Gene Info — TGFB3

Entrez GeneID	7043
Protein Accession#	P10600-1
Gene Name	TGFB3

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Gene Alias	ARVD, FLJ16571, TGF-beta3
Gene Description	transforming growth factor, beta 3
Omim ID	107970 190230
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the TGF-beta family of proteins. The encoded protein is secrete d and is involved in embryogenesis and cell differentiation. Defects in this gene are a cause of fa milial arrhythmogenic right ventricular dysplasia 1. [provided by RefSeq
Other Designations	transforming growth factor-beta 3

Pathway

- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Hypertrophic cardiomyopathy (HCM)
- MAPK signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Renal cell carcinoma
- TGF-beta signaling pathway

Disease

- Albuminuria
- Anodontia
- Aortic Aneurysm
- Cleft Lip
- Cleft Palate

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- Coronary Artery Disease
- Coronary Disease
- Disease Models
- Disease Progression
- Genetic Predisposition to Disease
- Hepatitis C
- Hypertension
- Hypertrophy
- Keloid
- Kidney Diseases
- Liver Cirrhosis
- Lupus Erythematosus
- Obesity
- Ovarian Failure
- Ovarian Neoplasms
- Polycystic Ovary Syndrome
- Puberty
- Pulmonary Fibrosis
- Sarcoidosis
- Syndrome
- Thrombophilia
- Tobacco Use Disorder
- Ventricular Dysfunction

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