

Product Data Sheet

Animal-Free TGF beta 2/TGFB2 Protein, Human (His)

Cat. No.:	HY-P700151AF
Synonyms:	G-TSF; LDS4; TGFB2
Species:	Human
Source:	E. coli
Accession:	P61812 (A303-S414)
Gene ID:	7042
Molecular Weight:	Approximately 13.66 kDa

DODEDTIES				
ROPERTIES				
AA Sequence	MALDAAYCFR	NVODNCCLRP	LYIDFKRDLG	WKWIH
	NANFCAGACP	YLWSSDTQHS	RVLSLYNTIN	PEASA
	SQDLEPLTIL	YYIGKTPKIE	QLSNMIVKSC	KCS
ological Activity	Measure by its ability to in	hibit IL-4-induce proliferatio	on in HT-2 cells. The ED ₅₀ for	r this effect is •
	activity of recombinant h	uman TGF beta 2 is >5 x 10 ⁶ I	U/mg.	
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Appearance	Lyophilized powder.			
Formulation	Lyophilized from a solution	on containing 20 mM sodium	citrate, 0.2 M NaCl, pH 3.5.	
Endotoxin Level	<0.01 EU per 1 µg of the p	rotein by the LAL method.		
Reconsititution	It is not recommended to	reconstitute to a concentrat	ion less than 100 µg/mL in c	dH2O.
Storage & Stability	Stored at -20°C for 2 years	s. After reconstitution, it is st	able at 4°C for 1 week or -20	°C for longer (
	recommended to freeze a	liquots at -20°C or -80°C for e	extended storage.	
Shipping	Room temperature in cor	tinental US: may yary elsew	here	
Sinkhing	Noom temperature in cor	innentat 05, may vary elsew		

DESCRIPTION

BackgroundAs a central player in the TGF-beta-2 signaling pathway, the TGF beta 2/TGFB2 protein assumes the role of a precursor for
both the Latency-associated peptide (LAP) and the Transforming growth factor beta-2 (TGF-beta-2) chains. These chains
collectively form the regulatory and active subunits of TGF-beta-2, respectively. Notably, TGF beta 2/TGFB2 is essential for
maintaining the TGF-beta-2 chain in a latent state during storage within the extracellular matrix. The protein engages in
non-covalent associations with TGF-beta-2, intricately regulating its activation through interactions with 'milieu molecules,'
including LTBP1 and LRRC32/GARP. These interactions play a pivotal role in controlling the activation of TGF-beta-2,
contributing to the finely tuned regulation of this critical signaling pathway.

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

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