

## Product datasheet for PH312624

### TGF beta 2 (TGFB2) (NM\_003238) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TGFB2 MS Standard C13 and N15-labeled recombinant protein (NP_003229)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212624
Predicted MW:	47.6 kDa
Protein Sequence:	>RC212624 representing NM_003238 Red=Cloning site Green=Tags(s)

MHYCVLSAFLILHLVTVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTPPEDYPEPEEVPPEVISI  
YNSTRDLLQEKASRRAAACERERSDEEYAKEVYKIDMPPFPSENAIPPTFYRPFYFRIVRFDVSAMEKN  
ASNLVKAEFRVFRQLQNPKEARVPEQRIELYQILKSKDLTSPTRQYIDSKVVKTRAEGEWL SFDVTDAYHEW  
LHHKDRNLGFKISLHPCCTFVPSNNYIIPNKSEEARFAGIDGTSTYTSGDQKTIKSTRKKNKSGKTPH  
LLLMLLPSYRLESQQTNRKRKRALDAAYCFRNVQDNCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGAC  
PYLWSSDTQHSRVL SLYNTINPEASAPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSKCKS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003229</u>
RefSeq Size:	1695
RefSeq ORF:	1242
Synonyms:	G-TSF; LDS4; TGF-beta2
Locus ID:	7042



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UniProt ID: [P61812](#), [Q59EG9](#)

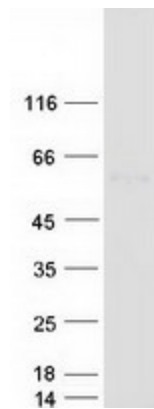
Cytogenetics: 1q41

**Summary:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers. A chromosomal translocation that includes this gene is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. Mutations in this gene may be associated with Loeys-Dietz syndrome. This gene encodes multiple isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

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

### Product images:



Coomassie blue staining of purified TGFB2 protein (Cat# [TP312624]). The protein was produced from HEK293T cells transfected with TGFB2 cDNA clone (Cat# [RC212624]) using MegaTran 2.0 (Cat# [TT210002]).