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Product datasheet for PH301549

TGIF (TGIF1) (NM_173208) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TGIF1 MS Standard C13 and N15-labeled recombinant protein (NP_775300)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201549
Predicted MW:	29.7 kDa
Protein Sequence:	>RC201549 protein sequence Red=Cloning site Green=Tags(s) MKGKKGIVAASGSETEDEDSMDIPLDLSSSAGSGKRRRRGNLPKESVQILRDWLYEHRYNAYPSEQEKAL LSQQTHLSTLQVCNWFINARRRLLPDMLRKDGKDPNQFTISRRGAKISETSSVESVMGIKNFMPALEETP FHSCTAGPNPTLGRPLSPKPSSPGSVLARPSVICHTTVTALKDVPFSLCQSVGVGQNTDIQQIAAKNFTD TSLMYPEDTCKSGPSTNTQSGLFNTPPPTPPDLNQDFSGFQLLVDVALKRAAEMELQAKLTA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_775300
RefSeq Size:	1890
RefSeq ORF:	816
Synonyms:	HPE4; TGIF
Locus ID:	7050
UniProt ID:	Q15583

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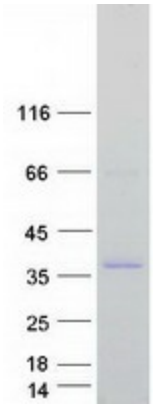
Cytogenetics: 18p11.31

Summary: The protein encoded by this gene is a member of the three-amino acid loop extension (TALE) superclass of atypical homeodomains. TALE homeobox proteins are highly conserved transcription regulators. This particular homeodomain binds to a previously characterized retinoid X receptor responsive element from the cellular retinol-binding protein II promoter. In addition to its role in inhibiting 9-cis-retinoic acid-dependent RXR alpha transcription activation of the retinoic acid responsive element, the protein is an active transcriptional co-repressor of SMAD2 and may participate in the transmission of nuclear signals during development and in the adult. Mutations in this gene are associated with holoprosencephaly type 4, which is a structural anomaly of the brain. Alternative splicing has been observed at this locus and multiple splice variants encoding distinct isoforms are described. [provided by RefSeq, Jul 2013]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

Product images:



Coomassie blue staining of purified TGIF1 protein (Cat# [TP301549]). The protein was produced from HEK293T cells transfected with TGIF1 cDNA clone (Cat# [RC201549]) using MegaTran 2.0 (Cat# [TT210002]).