

Recombinant Human TGIF1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TGIF1-4324H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TGIF1 MS Standard C13 and N15-labeled recombinant protein (NP_775300) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	29.7 kDa
AA Sequence	MKGKKGIVAASGSETEDEDSMDIPLDLSSSAGSGKRRRRGNLPKESVQILRDWLYE HRYNAYPSEQEKALLSQQTHLSTLQVCNWFINARRLLPDMLRKDGKDPNQFTISR

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RGAKISETSSVESVMGIKNFMPALEETPFHSCTAGPNPTLGRPLSPKPSSPGSVLAR
 PSVICHTTVTALKDVPFSLCQSVGVGQNTDIQQIAAKNFTDTSLMYPEDTCKSGPST
 NTQSGLFNTPPPTPPDLNQDFSGFQLLVDVALKRAAEMELQAKLTATRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TGIF1 TGFB-induced factor homeobox 1 [Homo sapiens (human)]

Official Symbol TGIF1

Synonyms TGIF1; TGFB-induced factor homeobox 1; HPE4, TGFB induced factor (TALE family homeobox), TGIF; homeobox protein TGIF1; homeobox protein TGIF; 5-TG-3 interacting factor; 5-TG-3-interacting factor 1; TALE homeobox TG-interacting factor; transforming growth factor-beta-induced factor; HPE4; TGIF; MGC5066; MGC39747;

Gene ID 7050

mRNA Refseq NM_173208

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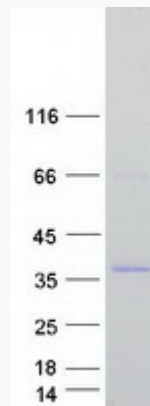
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Protein Refseq NP_775300

MIM 602630

UniProt ID Q15583

SDS-PAGE



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