Recombinant Human TGIF1 Protein, His-tagged

Cat. No. TGIF1-589H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGIF1, transcript variant 4, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1 % Sarkosyl.
Molecular Mass	29.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	TGIF1 TGFB-induced factor homeobox 1 [Homo sapiens]
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_003244
Protein Refseq	NP_003235
MIM	602630
UniProt ID	Q15583

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