

## Recombinant Human TGIF1 Protein, His-tagged

Cat. No. TGIF1-590H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human TGIF1, transcript variant 1, 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** 42.8 kDa

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

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**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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