

Recombinant Human TGIF1

Cat. No. TGIF1-31143TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human TGIF protein isoform 2, 31 kDa.
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 eight variants, encoding four distinct isoforms, are described.
Form	Liquid
Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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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;
Gene ID	7050
mRNA Refseq	NM_003244
Protein Refseq	NP_003235
MIM	602630
Uniprot ID	Q15583
Chromosome Location	18p11.31
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific biosystem;
Function	chromatin binding; co-SMAD binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity;

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