

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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