

Recombinant Human TGIF1 Protein, His-tagged

Cat. No. TGIF1-591H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TGIF1, transcript variant 3, 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, 150 mM NaCl, 10% glycerol. Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

Molecular Mass 29.6 kDa

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

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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