



Recombinant Human Homeobox protein TGIF1 (TGIF1)

Product Code	CSB-MP623005HU
Abbreviation	TGIF1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q15583
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MVLAQSRVSA GVGSPHCSGS GGGGSDSFPW PASHPGNPQC SFSTAFLASP RLSRGTLAYL PPAPWSSLAT PSALLGSSCA PPPPPARCPQ PRALSPELGT KAGPRRPHRW ELPRSPSQGA QGPAPRRRLLE TMKGIVAAS GSETEDEDSM DIPLDLSSSA GSGKRRRRRGN LPKESVQILR DWLYEHRYNA YPSEQEKALL SQQTHLSTLQ VCNWFINARR RLLPDMLRKD GKDPNQFTIS RRGAKISETS SVESVMGIKN FMPALEETPF HSCTAGPNPT LGRPLSPKPS SPGSVLARPS VICHTTVTAL KDVPFSLCQS VGVGQNTDIQ QIAAKNFTDT SLMYPEDTCK SGPSTNTQSG LFNTPPPTPP DLNQDFSGFQ LLVDVALKRA AEMELQAKLT A
Source	Mammalian cell
Target Names	TGIF1
Protein Names	Recommended name: Homeobox protein TGIF1 Alternative name(s): 5'-TG-3'-interacting factor 1
Expression Region	1-401
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein 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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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