

Recombinant Mouse Twist1 Protein, Myc/DDK-tagged

Cat. No. Twist1-6740M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length twist basic helix-loop-helix transcription factor 1 (Twist1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Basic helix-loop-helix (bHLH) transcription factors have been implicated in cell lineage determination and differentiation. This gene encodes a bHLH transcription factor that is evolutionarily conserved from invertebrates to humans, and was originally identified in <i>Drosophila</i> as an essential gene involved in early mesoderm development and dorsal-ventral patterning in the embryo. This protein plays a role in cancer by regulating the epithelial-mesenchymal transition (EMT), a process that is critical for metastasis initiation, and promoting tumor progression. Mutations in the human gene are associated with Saethre-Chotzen syndrome (SCS). Mice with heterozygous mutations in this gene exhibit cranofacial and structural defects similar to those seen in human SCS patients. [provided by RefSeq, Sep 2015]
Molecular Mass	21.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Twist1 twist basic helix-loop-helix transcription factor 1 [Mus musculus (house mouse)]
Official Symbol	Twist1
Synonyms	TWIST1; twist homolog 1 (Drosophila); twist-related protein 1; Pluridigite; charlie chaplin; polydactyly EMS; Ska< sup> m10Jus< /sup> twist gene homolog 1; Pde; pdt; Ska10; Twist; M-Twist; bHLHa38; AA960487; m10Jus> MGC103391;
Gene ID	22160
mRNA Refseq	NM_011658
Protein Refseq	NP_035788
UniProt ID	P26687