

Recombinant Full Length Human TWIST1 Protein, C-Flag-tagged

Cat. No. TWIST1-2100HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TWIST1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a basic helix-loop-helix (bHLH) transcription factor that plays an important role in embryonic development. The encoded protein forms both homodimers and heterodimers that bind to DNA E box sequences and regulate the transcription of genes involved in cranial suture closure during skull development. This protein may also regulate neural tube closure, limb development and brown fat metabolism. This gene is hypermethylated and overexpressed in multiple human cancers, and the encoded protein promotes tumor cell invasion and metastasis, as well as metastatic recurrence. Mutations in this gene cause Saethre-Chotzen syndrome in human patients, which is characterized by craniosynostosis, ptosis and hypertelorism.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	20.8 kDa
AA Sequence	MMQDVSSSPVSPADDLSLNSEEEPPDRQQPPSGKRGGRKRRSSRRSAGGGAGPG GAAGGGVGGGDEPGSP AQGKRGKKSAGCGGGGGAGGGGGSSSGGGSPQSYEE

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LQTQRVMANVRERQRTQSLNEAFAALRKIIPTL PSDKLSKIQTLKLAARYIDFLYQVL
 QSELDSDKMASCSYVAHERLSYAFSVWRMEGAWSMSASH SGPTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	TWIST1 twist family bHLH transcription factor 1 [Homo sapiens (human)]
Official Symbol	TWIST1
Synonyms	CRS; CSO; SCS; ACS3; CRS1; BPES2; BPES3; SWCOS; TWIST; bHLHa38
Gene ID	7291
mRNA Refseq	NM_000474.4

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Protein Refseq [NP_000465.1](#)

MIM [601622](#)

UniProt ID [Q15672](#)



Coomassie blue staining of purified TWIST1 protein.

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