

Recombinant Human TWIST1 Protein, His-tagged

Cat. No. TWIST1-511H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TWIST1 Protein (Ser102-His202) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser102-His202
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 15.3 kDa Accurate Molecular Mass: 16 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TWIST1 twist family bHLH transcription factor 1 [Homo sapiens (human)]
Official Symbol	TWIST1
Synonyms	TWIST1; twist family bHLH transcription factor 1; CRS; CSO; SCS; ACS3; CRS1; BPES2; BPES3; SWCOS; TWIST; bHLHa38; twist-related protein 1; B-HLH DNA binding protein; H-twist; TWIST homolog of drosophila; class A basic helix-loop-helix protein 38; twist basic helix-loop-helix transcription factor 1; twist homolog 1
Gene ID	7291
mRNA Refseq	NM_000474

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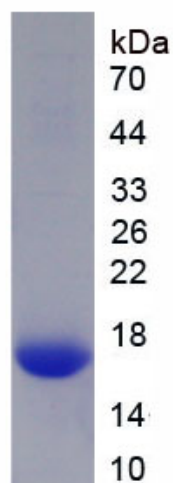
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Protein Refseq NP_000465

MIM 601622

UniProt ID Q15672



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