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Product datasheet for PH302920

Twist (TWIST1) (NM_000474) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TWIST1 MS Standard C13 and N15-labeled recombinant protein (NP_000465)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202920
Predicted MW:	21 kDa
Protein Sequence:	>Peptide sequence encoded by RC202920 Blue=ORF Red=Cloning site Green=Tag(s) MMQDVSSSPVSPADDSLSNSEEEPDRQQPPSGKRGGRKRRSSRRSAGGGAGPGGAAGGGVGGGDEPGSP AQGKRGKKSAGCGGGGGAGGGGGSSSGGGSPQSYEELQTQRVMANVRERQRTQSLNEAFAALRKIIPTL PSDKLSKIQTLKLAARYIDFLYQVLQSDELDSKMASCSYVAHERLSYAFSVWRMEGAWSMSASH SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV Recombinant protein using RC202920 also available, TP302920
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000465
RefSeq Size:	1669
RefSeq ORF:	606
Synonyms:	ACS3; bHLHa38; BPES2; BPES3; CRS; CRS1; CSO; SCS; SWCOS; TWIST
Locus ID:	7291
UniProt ID:	Q15672

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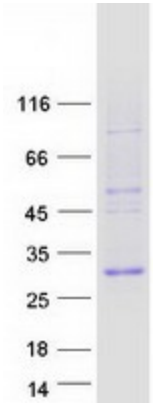
Cytogenetics: 7p21.1

Summary: 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. [provided by RefSeq, Jul 2020]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified TWIST1 protein (Cat# [TP302920]). The protein was produced from HEK293T cells transfected with TWIST1 cDNA clone (Cat# [RC202920]) using MegaTran 2.0 (Cat# [TT210002]).