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Product datasheet for PH306294

MAX (NM_145116) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAX MS Standard C13 and N15-labeled recombinant protein (NP_660092)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206294
Predicted MW:	15.4 kDa
Protein Sequence:	>RC206294 protein sequence Red=Cloning site Green=Tags(s) MSDNDDIEVESDEEQQRFQSAADKRAHHNALERKRRDHIKDSFHSLRDSVPSLQGEKASRAQILDKATEY IQYMRRKNHTHQQDIDDLKRQNALLEQQGEHPSSWGSWPCCAPARSGFGTWACRVRASHGVCAQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_660092
RefSeq Size:	575
RefSeq ORF:	402
Synonyms:	bHLHd4; bHLHd5; bHLHd6; bHLHd7; bHLHd8; orf1
Locus ID:	4149
UniProt ID:	P61244
Cytogenetics:	14q23.3

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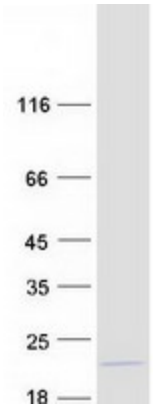
Summary: The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Mutations of this gene have been reported to be associated with hereditary pheochromocytoma. A pseudogene of this gene is located on the long arm of chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: MAPK signaling pathway, Pathways in cancer, Small cell lung cancer

Product images:



Coomassie blue staining of purified MAX protein (Cat# [TP306294]). The protein was produced from HEK293T cells transfected with MAX cDNA clone (Cat# [RC206294]) using MegaTran 2.0 (Cat# [TT210002]).