

Product datasheet for PH315938

BHLHA15 (NM_177455) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BHLHA15 MS Standard C13 and N15-labeled recombinant protein (NP_803238)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215938
Predicted MW:	20.6 kDa
Protein Sequence:	>RC215938 representing NM_177455 Red=Cloning site Green=Tags(s) MKTKNRP RR RAPVQDTEATPGEGTPDGSLPNPGPEPAKGLRSRPARAAAARAPGEGRRRRPGPSGPGGRR DSSIQRRLESNERERQRMHKLNNAFQALREVIPHVRADKKLSKIETLTLAKNYIKSLTATILTMSSSRLP GLEGPGPKLYQHYQQQQVAGGALGATEAQPQGHLLQRYSTQIHSFREGT TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_803238
RefSeq Size:	588
RefSeq ORF:	567
Synonyms:	BHLHB8; MIST1
Locus ID:	168620
UniProt ID:	Q7RTS1



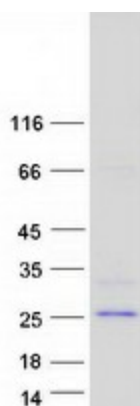
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Cytogenetics: 7q21.3

Summary: Plays a role in controlling the transcriptional activity of MYOD1, ensuring that expanding myoblast populations remain undifferentiated. Repression may occur through muscle-specific E-box occupancy by homodimers. May also negatively regulate bHLH-mediated transcription through an N-terminal repressor domain. Serves as a key regulator of acinar cell function, stability, and identity. Also required for normal organelle localization in exocrine cells and for mitochondrial calcium ion transport. May function as a unique regulator of gene expression in several different embryonic and postnatal cell lineages. Binds to the E-box consensus sequence 5'-CANNTG-3' (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Pathways: Maturity onset diabetes of the young

Product images:



Coomassie blue staining of purified BHLHA15 protein (Cat# [TP315938]). The protein was produced from HEK293T cells transfected with BHLHA15 cDNA clone (Cat# [RC215938]) using MegaTran 2.0 (Cat# [TT210002]).