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Product datasheet for PH301987

NEUROD1 (NM_002500) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NEUROD1 MS Standard C13 and N15-labeled recombinant protein (NP_002491)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201987
Predicted MW:	39.9 kDa
Protein Sequence:	>RC201987 protein sequence Red=Cloning site Green=Tags(s) MTKSYSESGLMGEPQPQGPPSWTDECLSSQDEEHEADKKEDDLEAMNAEEDSLRNGGEEEDEDEDLEEEE EEEEEDDDQKPKRRGPKKKKMTKARLERFKLRRMKANARERNRMHGLNAALDNLRKVVPCYSKTQKLSKI ETLRLAKNYIWALSEILRSGKSPDLVSFVQTLCKGLSQPTTNLVAGCLQLNPRTFLPEQNQDMPPHLPTA SASFPVHPYSYQSPGLPSPPYGTMDSSHVFHVKPPPHAYSAALEPFFESPLTDCTSPSFDGPLSPPLSIN GNFSFKHEPSAEFEKNYAFTMHYPAATLAGAQSHGSIFSGTAAPRCEIPIDNIMSFDSHSHHERVMSAQL NAIFHD 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_002491
RefSeq Size:	3002
RefSeq ORF:	1068
Synonyms:	BETA2; BHF-1; bHLHa3; MODY6; NEUROD; T2D
Locus ID:	4760

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UniProt ID: Q13562

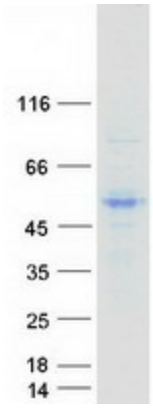
Cytogenetics: 2q31.3

Summary: This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq, Jul 2008]

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

Product images:



Coomassie blue staining of purified NEUROD1 protein (Cat# [TP301987]). The protein was produced from HEK293T cells transfected with NEUROD1 cDNA clone (Cat# [RC201987]) using MegaTran 2.0 (Cat# [TT210002]).

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