

Product datasheet for PH324996

Neurogranin (NRGN) (NM_001126181) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NRGN MS Standard C13 and N15-labeled recombinant protein (NP_001119653)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224996
Predicted MW:	7.6 kDa
Protein Sequence:	>RC224996 protein sequence Red =Cloning site Green =Tags(s) MDCCTENACSKPDDDDILDIPDDPGANAAAAKIQA ^{Red} SFRGHMARKKIKSGERGRKGP ^{Green} GGPGGAGVARGG AGGGPSGD TR TRPLE ^{Green} QKLISEEDLAANDILDYKDDDDKV
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_001119653
RefSeq Size:	1238
RefSeq ORF:	234
Synonyms:	hng; RC3
Locus ID:	4900
UniProt ID:	Q92686 , A0A024R3M7
Cytogenetics:	11q24.2



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Summary:

Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and exons 3 and 4 contain untranslated sequences. It is suggested that the NRGN is a direct target for thyroid hormone in human brain, and that control of expression of this gene could underlay many of the consequences of hypothyroidism on mental states during development as well as in adult subjects. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Product images:

Coomassie blue staining of purified NRGN protein (Cat# [TP324996]). The protein was produced from HEK293T cells transfected with NRGN cDNA clone (Cat# [RC224996]) using MegaTran 2.0 (Cat# [TT210002]).