

Product datasheet for PH303388

NAT13 (NAA50) (NM_025146) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NAA50 MS Standard C13 and N15-labeled recombinant protein (NP_079422)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203388
Predicted MW:	19.4 kDa
Protein Sequence:	>RC203388 protein sequence Red=Cloning site Green=Tags(s) MKGSRIELGDVTPHNIKQLKRLNQVIFPVSYNDKFYKDVLEVVELAKLAYFNDAVAVGCCRVSDHSDQNK RLYIMTLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLHVQISNESAIIDFYRKFGEIETKKNYYK RIEPADAHVLQKNLKVPSGQNADVQKTDN 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- 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_079422
RefSeq Size:	6148
RefSeq ORF:	507
Synonyms:	hNaa50p; MAK3; NAT5; NAT5P; NAT13; NAT13P; SAN
Locus ID:	80218
UniProt ID:	Q9GZZ1

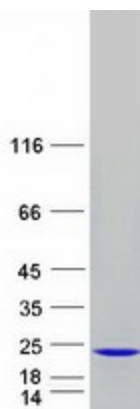


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Cytogenetics: 3q13.31

Summary: N-alpha-acetyltransferase that acetylates the N-terminus of proteins that retain their initiating methionine (PubMed:19744929, PubMed:22311970, PubMed:21900231, PubMed:27484799). Has a broad substrate specificity: able to acetylate the initiator methionine of most peptides, except for those with a proline in second position (PubMed:27484799). Also displays N-epsilon-acetyltransferase activity by mediating acetylation of the side chain of specific lysines on proteins (PubMed:19744929). Autoacetylates in vivo (PubMed:19744929). The relevance of N-epsilon-acetyltransferase activity is however unclear: able to acetylate H4 in vitro, but this result has not been confirmed in vivo (PubMed:19744929). Component of a N-alpha-acetyltransferase complex containing NAA10 and NAA15, but NAA50 does not influence the acetyltransferase activity of NAA10: this multiprotein complex probably constitutes the major contributor for N-terminal acetylation at the ribosome exit tunnel, with NAA10 acetylating all amino termini that are devoid of methionine and NAA50 acetylating other peptides (PubMed:16507339, PubMed:27484799). Required for sister chromatid cohesion during mitosis by promoting binding of CDCA5/sororin to cohesin: may act by counteracting the function of NAA10 (PubMed:17502424, PubMed:27422821).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified NAA50 protein (Cat# [TP303388]). The protein was produced from HEK293T cells transfected with NAA50 cDNA clone (Cat# [RC203388]) using MegaTran 2.0 (Cat# [TT210002]).