

## Product datasheet for **TP303388L**

### **NAT13 (NAA50) (NM\_025146) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human N-acetyltransferase 13 (GCN5-related) (NAT13), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203388 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MKGSRIELGDVTPHNIKQLKRLNQVIFPVSYNDFYKDVLEVGEAKLAYFNDAVAVCCRVDHSQNQK RLYIMTLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLVHVQISNESAIQFYRKFGEIETKKNYYK RIEPADAHVLQKNLKVPSGQNADVQKTDN  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	19.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_079422</a>
Locus ID:	80218
UniProt ID:	<a href="#">Q9GZZ1</a>
RefSeq Size:	6148



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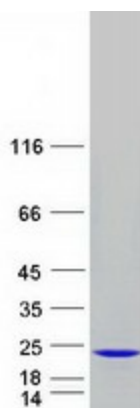
Cytogenetics: 3q13.31

RefSeq ORF: 507

Synonyms: hNaa50p; MAK3; NAT5; NAT5P; NAT13; NAT13P; SAN

**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]).