

Product datasheet for AR50231PU-S

OriGene Technologies, Inc.

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MAK3 / NAT13 (1-169, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: MAK3 / NAT13 (1-169, His-tag) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone MGSSHHHHHH SSGLVPRGSH MGSHMKGSRI ELGDVTPHNI KQLKRLNQVI FPVSYNDKFY

or AA Sequence: KDVLEVGELA KLAYFNDIAV GAVCCRVDHS QNQKRLYIMT LGCLAPYRRL GIGTKMLNHV

LNICEKDGTF DNIYLHVQIS NESAIDFYRK FGFEIIETKK NYYKRIEPAD AHVLQKNLKV PSGQNADVQK

TDN

Tag: His-tag
Predicted MW: 21.9 kDa
Concentration: lot specific

Purity: >95% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1M NaCl

Preparation: Liquid purified protein

Protein Description: Recombinant human NAA50 protein, fused to His-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001295374

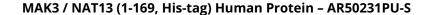
 Locus ID:
 80218

 UniProt ID:
 E7EQ69

 Cytogenetics:
 3q13.31

Synonyms: hNaa50p; MAK3; NAT5; NAT5P; 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]