

Recombinant Human N-acetyltransferase 6, His-tagged

Cat. No. NAT6-132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human N-acetyltransferase 6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography, 35.9 kDa (328aa)(Real molecular weight on SDS-PAGE will be shift up).

Species Human

Source E.coli

Description N-acetyltransferase, also known as FUS2 (NAT6), is an enzyme that catalyzes the transfer of acetyl groups from acetyl-CoA to acrylamines. This enzyme is physically localized in the cytoplasm and its activity has been documented by its feasibility to acetylate the N-terminus of proteins using a ping-pong-like mechanism and by its substrate specificity. Since the Fus-2 gene maps to the chromosomal region 3p21.3, which contains at least one tumor suppressor gene, the N-acetyltransferase functions of Fus-2 may be relevant to its potential role in cancer.

Sequences of amino acids

MGSSHHHHH SSGLVPRGSH MQELTLSPGP AKLTPTLDPT HRMELILSTS
 PAELTDPAC QPKLPLDSTC QPEMTFNPGP TELTLDPEHQ PEETPAPSLA
 ELTLEPVHRR PELLDACADL INDQWPRSRT SRLHSLGQSS DAFPLCLMLL
 SPHPTLEAAP VVVGHARLSR VLNQPQSLLV ETVVVARALR GRGFGRRRLME
 GLEVFARARG FRKLHLTTHD QVHFYTHLGY QLGEVPVQGLV FTSRRLPATL
 LNAFPTAPSP RPPRKAPNLT AQAAPRGPKG PPLPPPPLP ECLTISPPVP
 SGPPSKSLL E TQYQNVRGRP IFWMEKDI

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Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl 20% glycerol.
Purity	> 95% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	NAT6 N-acetyltransferase 6 (GCN5-related) [Homo sapiens]
Synonyms	EC 2.3.1.-; FUS-2; FUS2; N-acetyltransferase 6; N-acetyltransferase 6 (GCN5-related); Protein fus-2; Protein fusion-2; putative tumor suppressor; NAT6
Gene ID	24142
mRNA Refseq	NM_012191
Protein Refseq	NP_036323
MIM	607073
UniProt ID	Q93015
Chromosome Location	3p21.3
Pathway	1- and 2-Methylnaphthalene degradation; Alkaloid biosynthesis II; Benzoate degradation via CoA ligation; Ethylbenzene degradation; Glycerophospholipid

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metabolism; Limonene and pinene degradation; Phenylalanine metabolism; Tyrosine metabolism

Function

N-acetyltransferase activity; acyltransferase activity; transferase activity

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