

Recombinant Human NAT1

Cat. No. NAT1-28863TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NAT1 (amino acids 1-290) with N terminal proprietary tag, 57.97 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	290 amino acids
Description	This gene is one of two arylamine N-acetyltransferase (NAT) genes in the human genome, and is orthologous to the mouse and rat Nat2 genes. The enzyme encoded by this gene catalyzes the transfer of an acetyl group from acetyl-CoA to various arylamine and hydrazine substrates. This enzyme helps metabolize drugs and other xenobiotics, and functions in folate catabolism. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	57.970kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

MDIEAYLERIGYKKS RNKLDLET LT DILQH QIRAVPFENL NIHCGDAMD LGLEAIFDQV
 VRRNRGGWCLQVNHLLYWALT TIGFETT MLGGYVYSTPAKKYSTGMIHLLQVTID
 GRNYI VDAGFGRSYQM WQPLELISGKDQPQVPCV FRLTEENGFWY LDQIRREQYI
 PNEEFLHSDLLED SKYRKIYSFTLKPRTIE DFESMNTYLQTSPSSVFTSKSFCSLQTP
 DGVHCLVGFTLT HRRFNYKDNTDLIEFKTLSEEEIEKVLKNIFNISLQRKLV PKHGDR
 FFTI

Sequence Similarities

Belongs to the arylamine N-acetyltransferase family.

GENE INFORMATION

Gene Name

[NAT1 N-acetyltransferase 1 \(arylamine N-acetyltransferase\) \[Homo sapiens \]](#)

Official Symbol

[NAT1](#)

Synonyms

NAT1; N-acetyltransferase 1 (arylamine N-acetyltransferase); AAC1; arylamine N-acetyltransferase 1;

Gene ID

[9](#)

mRNA Refseq

[NM_000662](#)

Protein Refseq

[NP_000653](#)

MIM

[108345](#)

Uniprot ID

[P18440](#)

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Chromosome Location	8p22
Pathway	Acetylation, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Caffeine metabolism, organism-specific biosystem; Caffeine metabolism, conserved biosystem; Drug metabolism - other enzymes, organism-specific biosystem;
Function	acetyltransferase activity; arylamine N-acetyltransferase activity; transferase activity, transferring acyl groups;

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