

Recombinant Human NAT1, His-tagged

Cat. No. NAT1-30282TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, (amino acids 1-290) of Human NAT1 with N terminal His tag; 310 amino acids, 36.1 kDa inclusive of tag.
Species	Human
Source	E.coli
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.
Conjugation	HIS
Molecular Weight	36.100kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.316% Tris HCl, 0.058% Sodium

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

chloride, 0.0308% DTT, pH 8.0

Storage

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Sequences of amino acids

MGSSHHHHHSSGLVPRGSHMDIEAYLERIGYKKS RNKLDLETLDILQHQIRAVPF
ENLNHCAMDLDGLEAIFDQVRRNRGGWCLQVNHLLYWALTTIGFETTMLGGYV
YSTPAKKYSTGMIHLLQVTIDGRNYIVDAGFGRSYQMWPLELISGKDQPQVPCIF
RLTEENGFWYLDQIRREQYIPNEEFLHSDLLEDSKYRKIYSFTLKPRTIEDFESMNTY
LQTSPASVFTSKSFCSLQTPDGVHCLVGFTLTHRRFNYKDNTDLIEFKTLSEEEIEKV
LKNIFNISLQRKLVPKHGDRFFTI

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](#)

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Uniprot ID	P18440
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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