

Recombinant Human NAT1, Fc-tagged

Cat. No. NAT1-30283TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: DFESMNTYLQ TSPSSVFTSK SFCSLQTPDG VHCLVGFTLT HRRFNYKDNT DLIEFKTLSE EEIEKVLKNI FNISLQRKLV PKHGDRFFTI of Human NAT1 (amino acids 201-290) with N terminal proprietary tag, 35.53 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	90 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	Fc
Molecular Weight	35.530kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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

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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 cycles.
Sequences of amino acids	DFESMNTYLQTSPSSVFTSKSFCSLQTPDGVHCLVGFLLTHRRFNYKDNTDLIEFKT LSEEEIEKVLKNIFNISLQRKLVPKHGDRFFTI
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
Chromosome Location	8p22

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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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