Recombinant Human NAT1, His-tagged

Cat. No. NAT1-3573H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-290 aa).
Species	Human
Source	E.coli
Description	NAT1 belongs to the arylamine N-acetyltransferase family. It catalyzes N- or O-acetylation of heterocyclic and arylamine substrates in the detoxification of a wide array of drugs. Certain alleles causing high levels of N-acetyltransferase activity have been associated with colon and urinary bladder cancers, as NAT1 also bioactivate several known carcinogens. This enzyme helps metabolize drugs and other xenobiotics, and participates in the detoxification of a plethora of hydrazine and arylamine drugs.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.
Molecular Weight	36.1 kDa (310aa), confirmed by MALDI-TOF
Purity	> 85 % by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MDIEAYLERI GYKKSRNKLD LETLTDILQH

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acids	QIRAVPFENL NIHCGDAMDL GLEAIFDQVV RRNRGGWCLQ VNHLLYWALT TIGFETTMLG GYVYSTPAKK YSTGMIHLLL QVTIDGRNYI VDAGFGRSYQ MWQPLELISG KDQPQVPCIF RLTEENGFWY LDQIRREQYI PNEEFLHSDL LEDSKYRKIY SFTLKPRTIE DFESMNTYLQ TSPASVFTSK SFCSLQTPDG VHCLVGFTLT HRRFNYKDNT DLIEFKTLSE EEIEKVLKNI FNISLQRKLV PKHGDRFFTI
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	NAT1 N-acetyltransferase 1 (arylamine N-acetyltransferase) [Homo sapiens]
Official Symbol	NAT1
Synonyms	NAT1; AAC1; MNAT; NATI; NAT-1; arylamine N-acetyltransferase 1; OTTHUMP00000122488; OTTHUMP00000224577; OTTHUMP00000224578; OTTHUMP00000224579; arylamide acetylase 1; N-acetyltransferase type 1; monomorphic arylamine N-acetyltransferase; EC 2.3.1.5; N-acetyltransferase 1 (arylamine N-acetyltransferase); Arylamide acetylase 1; Monomorphic arylamine N-acetyltransferase
Gene ID	9
mRNA Refseq	NM_000662
Protein Refseq	NP_000653
MIM	108345

UniProt ID	P18440
Chromosome Location	8p22
Function	acetyltransferase activity; arylamine N-acetyltransferase activity; transferase activity

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