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## Product Data Sheet

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Product Name: NAT1 Human  
 Cat. No.: GP21978  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	N-acetyltransferase 1 (arylamine N-acetyltransferase); AAC1; Arylamide acetylase 1; Monomorphic arylamine N-acetyltransferase; MNAT; NAT-1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MDIEAYLERI GYKKS RNKLD LETLTDILQH QIRAVPFENL NIHCGDAMD L GLEAIFDQVV RRNRGGWCLQ VNHLLYWALT TIGFETTMLG GYVYSTPAKK YSTGMIHLLL QVTIDGRNYI VDAGFGRSYQ MWQPLELISG KDQPQVPCIF RLTEENGFY LDQIRREQYI PNEEFLHSDL LEDSKYRKIY SFTLKPRTIE DFESMNTYLQ TSPASVFTSK SFCSLQTPDG VHCLVGFTLT HRRFNYKDNT DLIEFKTLSE EEIEKVLKNI FNISLQRKLV PKHGDRFFTI		
Formulation	NAT1 protein 0.5mg/ml is supplied in 20mM Tris-HCl, pH-8, 0.1M NaCl, 2mM DTT and 10% Glycerol.		

### Introduction

NAT1 is a member of the arylamine N-acetyltransferase family. NAT1 catalyzes N- or O-acetylation of heterocyclic and arylamine substrates in the detoxification of a large number of drugs. Several alleles triggering high levels of N-acetyltransferase activity were linked to colon and urinary bladder cancers, since NAT1 also bioactivate numerous known carcinogens. NAT1 aids metabolize drugs and other xenobiotics, and takes part in the detoxification of a plethora of hydrazine and arylamine drugs.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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NAT1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (1-290) and having a molecular mass of 36.1 kDa. The NAT1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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