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NAT1 Human

Catalog #:ENPS-151

For research use only.

Description: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.

Synonyms:N-acetyltransferase 1 (arylamine N-acetyltransferase), AAC1, Arylamide acetylase 1, Monomorphic arylamine N-acetyltransferase, MNAT, NAT-1.

Source: Escherichia Coli.

Physical Appearance:NAT1 is supplied as a sterile filtered clear solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MDIEAYLERI GYKKSRNKLD LETLTDILQH QIRAVPFENL NIHCGDAMDL GLEAIFDQVV RRNRGGWCLQ VNHLLYWALT TIGFETTMLG GYVYSTPAKK YSTGMIHLLL QVTIDGRNYI VDAGFGRSYQ MWQPLELISG KDQPQVPCIF RLTEENGFWY LDQIRREQYI PNEEFLHSDL LEDSKYRKIY SFTLKPRTIE DFESMNTYLQ TS

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
NAT1 protein 0.5mg/ml is supplied in 20mM Tris-HCl, pH-8, 0.1M NaCl, 2mM DTT and 10% Glycerol.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 drµgs. 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 drµgs and other xenobiotics, and takes part in the detoxification of a plethora of hydrazine and arylamine drµgs.

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