

## 32-2584: NAT1 Recombinant Protein

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 85.0% as determined by SDS-PAGE.  
**Content :** NAT1 protein 0.5mg/ml is supplied in 20mM Tris-HCl, pH-8, 0.1M NaCl, 2mM DTT and 10% Glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MDIEAYLERI GYKKS RNKLD LETLDILQH QIRAVPFENL NIHCGDAMD L  
GLEAIFDQVV RRNRGGWCLQ VNHLLYWALT TIGFETTMLG GYVYSTPAKK YSTGMIHLLL QVTIDGRNYI  
VDAGFGRSYQ MWQPLELISG KDQPQVPCIF RLTEENGFWY LDQIRREQYI PNEEFLHSDL LEDSKYRKIY  
SFTLKPRTE DFESMNTYLQ TSPASVFTSK SFCSLQTPDG VHCLVGFTLT HRRFNYKDNT DLIEFKTLSE  
EEIEKVLKNI FNISLQRKLV PKHGDRFFTI

