

N-Acetyltransferase 2 (NAT2) Active Protein | NAT2 active protein

Active N-Acetyltransferase 2 (NAT2)

CATALOG # AAA161924	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

N-Acetyltransferase 2 (NAT2); Active N-Acetyltransferase 2 (NAT2); N-Acetyltransferase 2; AAC2; PNAT; Arylamine N-Acetyltransferase; Arylamide acetylase 2; Polymorphic arylamine N-acetyltransferase4; NAT2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Asp20~Val2 80
Applicable Applications for NAT2 active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.1
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

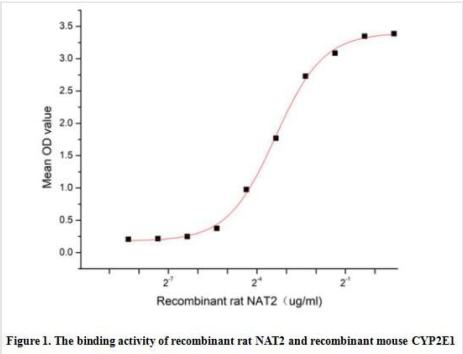
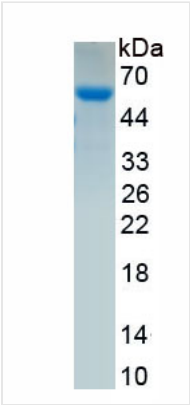


Figure 1. The binding activity of recombinant rat NAT2 and recombinant mouse CYP2E1

Bioactivity

N-Acetyltransferase 2 (NAT2)) is an enzyme that plays an important role in metabolism and detoxification of many compounds including drugs and environmental carcinogens through chemical modification of the amine group with an acetyl group. Cytochrome P4502E1 (CYP2E1) and NAT2 are related to chronic obstructive pulmonary disease and CYP2E1 can bind to NAT2. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant rat NAT2 and recombinant mouse CYP2E1. Briefly, NAT2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to CYP2E1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-NAT2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant rat NAT2 and recombinant mouse CYP2E1 was shown in Figure 1, the EC50 for this effect is 0.096 ug/mL.



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for NAT2 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16758720
NCBI GeneID	116632
NCBI Accession #	NP_446306.1
NCBI GenBank Nucleotide #	NM_053854.1
UniProt Accession #	P50298
Molecular Weight	33,756 Da
NCBI Official Full Name	arylamine N-acetyltransferase 2
NCBI Official Synonym Full Names	N-acetyltransferase 2
NCBI Official Symbol	Nat2
NCBI Official Synonym Symbols	Nat2a
NCBI Protein Information	arylamine N-acetyltransferase 2
UniProt Protein Name	Arylamine N-acetyltransferase 2
UniProt Gene Name	Nat2
UniProt Synonym Gene Names	Aac2; AT-2; NAT-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/n-acetyltransferase-2-nat2/161924>