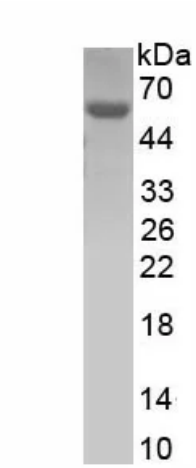
Active N-Acetyltransferase 2 (NAT2)

Catalog#:PER12960

概述（Summary）

别称（Alternative Names）	AAC2; PNAT; Arylamine N-Acetyltransferase; Arylamide acetylase 2; Polymorphic arylamine N-acetyltransferase
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Asp20-Val280】
Accession #	P50298
表达宿主（Host）	E.coli
种属（Species）	Rattus norvegicus (Rat)
预测分子量（Predicted MW）	60.3 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Participates in the detoxification of a plethora of hydrazine and arylamine drugs. Acetylates only arylamines.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

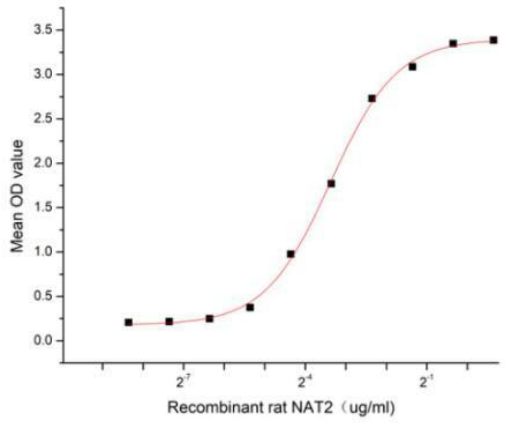


Figure 1. The binding activity of recombinant rat NAT2 and recombinant mouse CYP2E1

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 µl were then transferred to CYP2E1-coated microtiter wells and incubated for 1h at 37℃. 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℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL 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.

注意事项（Note）

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