

Recombinant Rat Akr1a1, His-tagged

Cat. No. Akr1a1-3259R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alcohol dehydrogenase [NADP (+)] (Akr1a1)
Species	Rat
Source	E.Coli/Yeast
ProteinLength	325
Description	enzyme that catalyzes the NADPH-dependent reduction of 3-deoxyglucosone; important for detoxifying 3-deoxyglucosone when it is formed through the Maillard reaction in vivo .
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of Akr1a1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol

 Tel: 1-631-559-9269 1-516-512-3133

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Warning

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION
Gene Name

Akr1a1 aldo-keto reductase family 1, member A1 (aldehyde reductase) [*Rattus norvegicus*]

Official Symbol

Akr1a1

Synonyms

AKR1A1; aldo-keto reductase family 1, member A1 (aldehyde reductase); alcohol dehydrogenase [NADP(+)]; aldehyde reductase; 3-DG-reducing enzyme; alcohol dehydrogenase; aldo-keto reductase family 1 member A1; Akr1a4;

Gene ID

78959

mRNA Refseq

NM_031000

Protein Refseq

NP_112262

Pathway

Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem; Glycolysis / Gluconeogenesis, conserved biosystem; Metabolic pathways, organism-specific biosyst

Function

L-glucuronate reductase activity; L-glucuronate reductase activity; alditol:NADP+ 1-oxidoreductase activity; alditol:NADP+ 1-oxidoreductase activity; molecular_function; oxidoreductase activity;

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