

## Recombinant Rat Akr1a1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Alcohol dehydrogenase [NADP (+)] (Akr1a1)
<b>Species</b>	Rat
<b>Source</b>	E.Coli/Yeast
<b>ProteinLength</b>	325
<b>Description</b>	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 .
<b>Form</b>	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
<b>Purity</b>	>90%
<b>Notes</b>	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.
<b>Storage</b>	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
<b>Storage Buffer</b>	PBS pH 7.4, 50% glycerol

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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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