

Product information

Akr1b1, 1-316aa

Mouse, His-tagged, Recombinant, *E.coli*

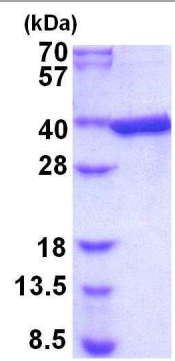
Cat. No. IBATGP2982

Full name: Aldose reductase

NCBI Accession No.: NP_033788

Synonyms: Ahr-1, Ahr1, Akr1b1, Aldor1, Aldr1, ALR2, AR

Description: Akr1b1, also known as Aldose reductase, is an enzyme. It catalyzes the NADPH-dependent reduction of a wide variety of carbonyl-containing compounds to their corresponding alcohols with a broad range of catalytic efficiencies. Recombinant mouse Akr1b1, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. In Phosphate buffer saline (pH 7.4) containing 10% glycerol.</p> <p>Molecular Weight: 38.1kDa (339aa) confirmed by MALDI-TOF.</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 1mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
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Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MGSMAHLEL NNGTKMPTLG LGTWKSPPGQ VTEAVKVAID LGYRHIDCAQ VYQNEKEVGV ALQEKLKEQV
 VKRQDLFIVS KLWCTFHDKS MVKGAFQKTL SDLQLDYLDL YLIHWPTGFK PGPDYFPLDA SGNVIPSOTD FVDTWTAMEQ LVDEGLVKT I
 GVSNFNPLQI ERI LNKPGLK YKPAVNQIEC HPYLTQEKL I EYCHSKGIVV TAYSPLGSPD RPWAKPEDPS LLEDPRIKAI AAKYNKTTAQ
 VLIRFPIQRN LVVIPKSVTP VRIAENLKVF DFEVSSDMA TLLSYNRNWR VCALMSCAKH KDYPFHAEV

General references:

Wilson DK, Bohren KM, *et al.* (1992). *Science*. 257(5066):81-4.

Graham A, Brown L, *et al.* (1992). *J Biol Chem*. 266(11):6872-7.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.