

# Mouse AKR1B1 Recombinant Protein



RPPB5792

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## Product Information    Protein Information

**Product SKU:**

RPPB5792

**Accession:**

P45376

**Host:**

E.coli.

**Protein description:**

AKR1B1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 339 amino acids (1-316a.a.) and having a molecular mass of 38.1kDa. AKR1B1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered colorless solution.

**Synonyms:**

Aldose reductase, AKR1B1, AR, Aldehyde reductase, Akr1b3, Aldor1, Aldr1, Akr1b1, Ahr-1, Ahr1, ALR2.

**Formulation:**

AKR1B1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), and 10% glycerol.

**Purity:**

Greater than 95% as determined by SDS-PAGE.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid Sequence:**

MGSSHHHHHH SGLVPRGSH MGSMAHLEL NNGTKMPTLG LGTWKSPPGQ VTEAVKVAID LGYRHIDCAQ  
VYQNEKEVGV ALQEKLKEQV VKRQDLFIVS KIWCTFHDKS MVKGAFQKTL SDLQLDYLDL YLIHWPTGFK  
PGPDYFPLDA SGNVIPSDDT FVDTWTAMEQ LVDEGLVKTI GVSNNFNPLQI ERILNKPKLK YKPAVNQIEC  
HPYLTQEKLI EYCHSKGIVV TAYSPLGSPD RPWAKPEDPS LLEDPRIKAI AAKYNKTTAQ VLIRFPIQRN  
LVVIPKSVTP VRIAENLKVDFEVSSEDMA TLLSYNRNWR VCALMSCAKH KDYPFHAEV.

**Biological Activity:**

Specific activity is > 500 pmol/min/ug, and is defined as the amount of enzyme that catalyze the reduction of 1.0 pmole DL-glyceraldehyde in the presence of NADPH per minute at pH7.0 at 37C.