

Aldose Reductase Mouse Recombinant

Item Number	rAP-1809
Synonyms	Aldose reductase, AKR1B1, AR, Aldehyde reductase, Akr1b3, Aldor1, Aldr1, Akr1b1, Ahr-1, Ahr1, ALR2.
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.
Uniprot Accesion Number	P45376
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMASHLEL NNGTKMPTLG LGTWKSPPGQ VTEAVKVAID LGYRHIDCAQ VYQNEKEVGV ALQEKLKEQV VKRQDLFIVS KLWCTFHDKS MVKGAFQKTL SDLQLDYLDL YLIHWPTGFK PGPDYFLDA SGNVIPSDTD FVDTWTAMEQ LVDEGLVVTI GVSNFNPLQI ERLNKPGLK YKPAVNQIEC HPYLTQEKKI EYCHSKGIVV TAYSPLGSPD RPWAKPEDPS LLEDPRIKAI AAKYNKTTAQ VLIRFPIQRN LVVIPKSVTP VRIAENLKVF DFEVSSEDMA TLLSYNRNWR VCALMSCAKH KDYPFHAEV.
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	AKR1B1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), and 10% glycerol. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	
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 37°C.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**