

Recombinant mouse Aldo-keto reductase 1B1/AKR1B1 protein

Catalog Number: ATGP2982

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-316aa

UniProt No.

P45376

NCBI Accession No.

NP_033788

Alternative Names

Aldose reductase, Ahr-1, Ahr1, Akr1b1, Aldor1, Aldr1, ALR2, AR, Aldo-keto reductase family 1 member B1, Aldehyde reductase, Aldo-keto reductase family 1 member B3, Akr1b3

PRODUCT SPECIFICATION

Molecular Weight

38.1 kDa (339aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Biological Activity

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

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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efficiencies. Recombinant mouse Akr1b1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

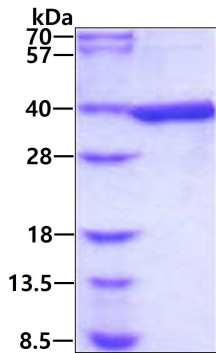
<MGSSHHHHHH SSGLVPRGSH MGS>MASHLEL NNGTKMPTLG LGTWKSPPGQ VTEAVKVAID LGYRHIDCAQ
VYQNEKEVGV ALQEKLKEQV VKRQDLFIVS KLWCTFHDKS MVKGAFQKTL SDLQLDYLDL YLIHWPTGFK PGPDYFPLDA
SGNVIPSDTD FVDTWTAMEQ LVDEGLVKTI GVSNNFNPLQI ERILNKPLGK YKPAVNQIEC HPYLTQEKLI EYCHSKGIVV
TAYSPLGSPD RPWAKPEDPS LLEDPRIKAI AAKYNKTTAQ VLIRFPIQRN LVVIPKSVTP VRIAENLKVF DFEVSSSEDMA
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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.