

Recombinant Human AKR1B10, His-tagged

Cat. No. AKR1B10-2764H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ARL1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E.coli</i>
Description	ADP-ribosylation factor-like protein 1 (ARL1) belongs to the ARL (ADP-ribosylation factor-like) family of proteins, which are structurally related to ADP-ribosylation factors (ARFs). ARFs, described as activators of cholera toxin (CT) ADP-ribosyltransferase activity, regulate intracellular vesicular membrane trafficking, and stimulate a phospholipase D (PLD) isoform. Although, ARL proteins were initially thought not to activate CT or PLD, later work showed that they are weak stimulators of PLD and CT in a phospholipid dependent manner.
Purity	> 95% by SDS – PAGE.
Sequences	MGSSHHHHHH SSSLVPRGSH MGGFFSSIFS SLFGTREMRI LILGLDGAGK TTILYRLQVG EVVTTIPTIG FNVETVYTKN LKFQVWDLGG QTSIRPYWRC YYSNTDAVIY VVDSCDRDRI GISKSELVAM LEEEELRKAI LVVFANKQDM EQAMTSSEMA NSLGLPALKD RKWQIFKTS A TKG TGLDEAM EWL VETLKS R Q.
Molecular Weight	22.5kDa (201aa) confirmed by MALDI-TOF.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 100mM NaCl, 2mM

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DTT.

Concentration 0.25mg/ml (determined by Bradford assay).

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.

GENE INFORMATION

Gene Name [AKR1B10](#) *aldo-keto reductase family 1, member B10 (aldose reductase)* [*Homo sapiens*]

Synonyms

AKR1B10; *aldo-keto reductase family 1, member B10 (aldose reductase)*; HIS; HSI; ARL1; ARL-1; ALDRLn; AKR1B11; AKR1B12; MGC14103; AKR1B10; EC 1.1.1.2; *Aldo-keto reductase family 1 member B10*; ARP; EC 1.1.1.-; ARP; *aldo-keto reductase family 1, member B10*; *aldose reductase-like 1*; *small intestine reductase*; *aldose reductase-like peptide*; *aldose reductase-related protein*; *aldo-keto reductase family 1, member B11 (aldose reductase-like)*; *Aldose reductase-like*; *SI reductase*

Gene ID [57016](#)

mRNA Refseq [NM_020299](#)

Protein Refseq [NP_064695](#)

MIM [604707](#)

UniProt ID [O60218](#)

Chromosome Location 7q33

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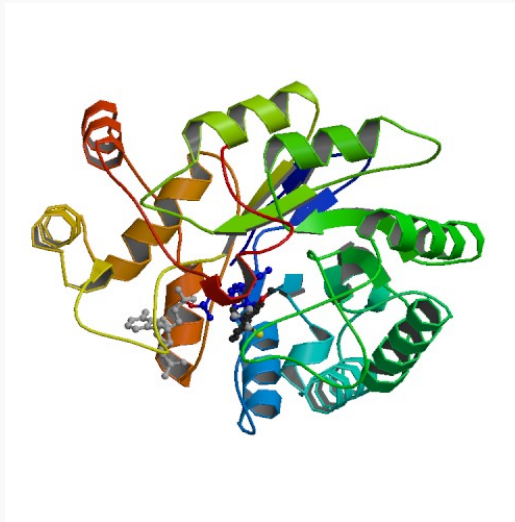
Pathway


Ascorbate and aldarate metabolism; Bile acid biosynthesis; Bisphenol A degradation; Butanoate metabolism; Fructose and mannose metabolism; Galactose metabolism; Glycine, serine and threonine metabolism; Linoleic acid metabolism; Lysine degradation; Nucleotide sugars metabolism; Tetrachloroethene degradation

Function


aldo-keto reductase activity; oxidoreductase activity; protein binding

**PDB rendering based
on 1zua.**



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