

## Aldose 1-epimerase/GALM Protein, Human (His)

Cat. No.:	HY-P7479
Synonyms:	rHuAldose 1-epimerase, His; GALM; Aldose 1-epimerase
Species:	Human
Source:	E. coli
Accession:	Q96C23 (A2-A342)
Gene ID:	130589
Molecular Weight:	Approximately 34.0 kDa

### PROPERTIES

#### AA Sequence

ASVTRAVFGE	LPSGGGTVEK	FQLQSDLLRV	DIISWGCTIT
ALEVKDRQGR	ASDVVLGFAE	LEGYLQKQPY	FGAVIGRVAN
RIAKGTFKVD	GKEYHLAINK	EPNSLHGGVR	GFDKVLWTPR
VLSNGVQFSR	ISPDGEEGYP	GELKVWVTYT	LDGGELIVNY
RAQASQATPV	NLTNHSYFNL	AGQASPNIND	HEVTIEADTY
LPVDETLIPT	GEVAPVQGTA	FDLRKPVELG	KHLQDFHLNG
FDHNFCLKGS	KEKHFCARVH	HAASGRVLEV	YTTQPGVQFY
TGNFLDGTLK	GKNGAVYPKH	SGFCLLETQNW	PDAVNQPRFP
PVLLRPGEEY	DHTTWFKFSV	AHHHHHH	

**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.2.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A

**Storage & Stability** Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping** Shipping with dry ice.

### DESCRIPTION

#### Background

Aldose-1-epimerase (mutarotase) catalyzes the interconversion of alpha and beta hexoses, which is essential for normal carbohydrate metabolism and the production of complex oligosaccharides<sup>[2]</sup>.

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## REFERENCES

[1]. David J Timson, et al. Identification and characterisation of human aldose 1-epimerase. FEBS Lett. 2003 May 22;543(1-3):21-4.

[2]. Tongkun Pai, et al. Galactomutarotase and other galactose-related genes are rapidly induced by retinoic acid in human myeloid cells. Biochemistry. 2007 Dec 25;46(51):15198-207.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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