

## Datasheet for ABIN7556368

# P5CS Protein (AA 1-795) (His tag)



#### Overview

Quantity:	1 mg
Target:	P5CS (ALDH18A1)
Protein Characteristics:	AA 1-795
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This P5CS protein is labelled with His tag.

#### **Product Details**

Purpose:	Custom-made recombinant Aldh18a1 Protein expressed in mammalian cells.
Sequence:	MLRHMHRSGV QPFRQRLLPW VQSIAVPRSN RVQPSAIRHV RSWSNIPFIT VPLSRAHGKP
	FAHRSELKHA KRIVVKLGSA VVTRGDECGL ALGRLASIVE QVSVLQNQGR EMMLVTSGAV
	AFGKQRLRHE ILLSQSVRQA LHSGQNHLKE MAIPVLEARA CAAAGQSGLM ALYEAMFTQY
	SICAAQILVT NLDFHDEQKR RNLNGTLHEL LRMNIVPIVN TNDAVVPPAE PNSDLQGVNV
	ISVKDNDSLA ARLAVEMKTD LLIVLSDVEG LFDSPPGSDD AKLIDIFYPG DQQSVTFGTK
	SRVGLGGMEA KVKAALWALQ GGTSVVIANG THPKVSGHVI TDIVEGKKVG TFFSEVKPAG
	PTVEQQGEMA RSGGRMLATL EPEQRAEIIN HLADLLTDQR EEILLANKKD LEEAEGRLAS
	PLLKRLSLST SKLNSLAIGL RQIAASSQES VGRVLRRTRI AKNLELEQVT VPIGVLLVIF
	ESRPDCLPQV AALAIASGNG LLLKGGKEAA HSNRILHLLT QEALSIHGVK EAIQLVNTRE
	EVEDLCRLDK IIDLIIPRGS SQLVRDIQKA AKGIPVMGHS EGICHMYVDS EASVDKVTRL
	VRDSKCEYPA ACNALETLLI HRDLLRTPLF DQIIDMLRVE QVKIHAGPKF ASYLTFSPSE
	VKSLRTEYGD LEVCIEVVDS VQEAIDHIHK YGSSHTDVIV TENEKTAEFF LQHVDSACVF

	WNASTRFSDG YRFGLGAEVG ISTSRIHARG PVGLEGLLTT KWLLRGQDHV VSDFSEHGSL
	KYLHENLPVP QRNFS Sequence without tag. The proposed Purification-Tag is based on
	experiences with the expression system, a different complexity of the protein could make
	another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different
	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:
	Made to order protein - from design to production - by highly experienced protein experts.
	Protein expressed in mammalian cells and purified in one-step affinity chromatography
	The optimized expression system ensures reliability for intracellular, secreted and
	<ul><li>transmembrane proteins.</li><li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul>
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein
	fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made
T+ D-+-: -	
Target Details	
Target:	P5CS (ALDH18A1)
Alternative Name:	Aldh18a1 (ALDH18A1 Products)
Background:	Delta-1-pyrroline-5-carboxylate synthase (P5CS) (Aldehyde dehydrogenase family 18 member
	A1) [Includes: Glutamate 5-kinase (GK) (EC 2.7.2.11) (Gamma-glutamyl kinase), Gamma-
	glutamyl phosphate reductase (GPR) (EC 1.2.1.41) (Glutamate-5-semialdehyde dehydrogenase
	(Glutamyl-gamma-semialdehyde dehydrogenase)],FUNCTION: Bifunctional enzyme that
	converts glutamate to glutamate 5-semialdehyde, an intermediate in the biosynthesis of prolin
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### **Target Details**

Molecular Weight:	87.3 kDa
UniProt:	Q9Z110

## **Application Details**

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
	functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months