

## ALDH18A1 Protein, Human, Recombinant

### General Information

Synonyms:	GSAS;Delta-1-pyrroline-5-carboxylate synthase;P5CS;PYCS;Aldehyde dehydrogenase family 18 member A1;ALDH18A1
Protein Construction:	1-795 aa
Species:	Human
Expression Host:	E. coli
Accession:	P54886
Molecular Weight:	87.3 kDa (Predicted)
AA Sequence:	<p>                     MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTHGKSFahrSELKHAKRIV                      VKLGSVVTRGDECGLALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQALHSGQN                      QLKEMAIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLDHFDEQKRRNLNGTLHELLRMNIVPIV                      NTNDVPPAEPNSDLQGVNVISVKDNDLSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLIDIFYPGDQ                      QSVTFGTksrvGMGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVITDIVEGKKGVTFFSEVKPAGPTVE                      QQGEMARSGRMLATLEPEQRAEIIHHLADLLDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAI                      GLRQIAASSQDSVGRVLRRTRIAKNLELEQVTPIGVLLVIFESRPDCLPQVAALAIASGNGLLKGKKEAAHSN                      RILHLLTQEALSIHGvKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGICHMYV                      DSEASVDKvTRLVRDSKCEYPAACNALETLLIHRDLLRTPFDQIIDMLRVEQVKIHAGPKFASYLTFFSPSEVKS                      LRTEYGDLELCIEVDNVQDAIDHIHKYGSSHTDVIVTEDENTAEFFLQHVDsACVFWNASTRFSDGYRFGLG                      AEVGISTSRIHARGPVGLEGLLTTKWLLRGKDHVVSDFSEHGSLKYLHENLPIQRNTN                 </p>

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	>85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	<p>If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.</p> <p>If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.</p>

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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