



Recombinant Human ALDH18A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06105

Protein Name: Delta-1-Pyrroline-5-Carboxylate Synthase (ALDH18A1)

Aliases: GSAS; P5CS; PYCS; SPG9; ADCL3; SPG9A; SPG9B; ARCL3A; delta-1-pyrroline-5-carboxylate synthase; delta1-pyrroline-5-carboxlate synthetase; spastic paraplegia 9 (autosomal dominant); aldehyde dehydrogena...

UniProt ID: P54886

UniProt Link: <https://www.uniprot.org/uniprotkb/P54886/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-795aa)

Molecular Weight: 87.3 kDa

Protein Tag: Tag-Free

2. Amino Acid Sequence (1-795aa)

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRSWSNIPFITVPLSRTH
GKSFAHRSELKHAKRIVVKLGSAVVTRGDECGALGLASIVEQVSVLQNNQGREMM
LVTSGAVAFGKQRLRHEILLSQSVRQALHSGQNQLKEMAIPVLEARACAAAGQSGL
MALYEAMFTQYSICAAQILVTNLDHFHDEQKRRNLNGTLHELLRMNIVPIVNTNDAVV
PPAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKL
IDIFYPGDQQSVTFGTCSRVMGGMGAKEAKVKAALWALQGGTSVVIANGTHPKVSGH
VITDIVEGKKVGTFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEIIHHLADL
LTDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAIGLRQIAASSQDSVGR
VLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQVAALAIASGNGLLLKGGKEAAH
SNRILHLLTQEALSIHGVKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKA
AKGIPVMGHSEGICHMYVDSEASVDKVTSLVRDSKCEYPACNALETLLIHRDLLRT
PLFDQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSLRTEYGDLELCIEVDNVQDAI
DHIHKYGSSTHDTVIVTEDENTAEFFLQHVDVSAFVFNASTRFSDGYRFGGLGAEVGI
STSRIHARGPVGLEGLLTTKWLLRGKDHVVSDFSEHGSLKYLHENLPIQRNTN



3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human ALDH18A1 full length protein (1-795aa) expressed in E.coli. The protein is tag-free. ALDH18A1, also known as GSAS or P5CS or PYCS, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.