

ALDH4A1 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20738c

Specification

ALDH4A1 Blocking Peptide (C-term) - Product Information

Primary Accession
Other Accession

[P30038](#)
[Q8CHT0](#), [Q7SY23](#), [A7YWE4](#)

ALDH4A1 Blocking Peptide (C-term) - Additional Information

Gene ID 8659

Other Names

Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial, P5C dehydrogenase, Aldehyde dehydrogenase family 4 member A1, L-glutamate gamma-semialdehyde dehydrogenase, ALDH4A1, ALDH4, P5CDH

Target/Specificity

The synthetic peptide sequence is selected from aa 522-536 of HUMAN ALDH4A1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ALDH4A1 Blocking Peptide (C-term) - Protein Information

Name ALDH4A1

Synonyms ALDH4, P5CDH

Function

Irreversible conversion of delta-1-pyrroline-5-carboxylate (P5C), derived either from proline or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma- semialdehyde, other substrates include succinic, glutaric and adipic semialdehydes.

Cellular Location

Mitochondrion matrix.

Tissue Location

Highest expression is found in liver followed by skeletal muscle, kidney, heart, brain, placenta,

lung and pancreas

ALDH4A1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ALDH4A1 Blocking Peptide (C-term) - Images

ALDH4A1 Blocking Peptide (C-term) - Background

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ALDH4A1 Blocking Peptide (C-term) - References

Hu C.-A.,et al.J. Biol. Chem. 271:9795-9800(1996).

Stagos D.,et al.Submitted (NOV-2008) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

Gregory S.G.,et al.Nature 441:315-321(2006).