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ALDH3A2 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP1468a

Specification

ALDH3A2 Blocking Peptide (N-term) - Product Information

Primary Accession P51648

ALDH3A2 Blocking Peptide (N-term) - Additional Information

Gene ID 224

Other Names
Fatty aldehyde dehydrogenase, Aldehyde dehydrogenase 10, Aldehyde dehydrogenase family 3 member A2, Microsomal aldehyde dehydrogenase, ALDH3A2, ALDH10, FALDH

Target/Specificity
The synthetic peptide sequence is selected from aa 30-44 of HUMAN ALDH3A2

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.

ALDH3A2 Blocking Peptide (N-term) - Protein Information

Name ALDH3A2

Function
Catalyzes the oxidation of medium and long chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length (PubMed:18035827, PubMed:18182499, PubMed:22633490, PubMed:25047030, PubMed:9133646, PubMed:9662422). Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid (PubMed:22633490).

Cellular Location
Microsome membrane; Single-pass membrane protein. Endoplasmic reticulum membrane;

Single-pass membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:P30839}

Tissue Location
Detected in liver (at protein level).

ALDH3A2 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides

ALDH3A2 Blocking Peptide (N-term) - Images

ALDH3A2 Blocking Peptide (N-term) - Background

Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. ALDH3A2 catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome.

ALDH3A2 Blocking Peptide (N-term) - References

Chang, C., et al., Genomics 40(1):80-85 (1997).
Rogers, G.R., et al., Genomics 39(2):127-135 (1997).
De Laurenzi, V., et al., Nat. Genet. 12(1):52-57 (1996).
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Pigg, M., et al., Nat. Genet. 8(4):361-364 (1994).