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NAT8L Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP21925a

Specification

NAT8L Blocking Peptide (N-Term) - Product Information

Primary Accession	Q8N9F0
Other Accession	Q3UGX3, D3ZVU9

NAT8L Blocking Peptide (N-Term) - Additional Information

Gene ID 339983

Other Names
N-acetylaspartate synthetase, NAA synthetase, 2.3.1.17, Camello-like protein 3, N-acetyltransferase 8-like protein, NAT8L, CML3

Target/Specificity
The synthetic peptide sequence is selected from aa 79-93 of HUMAN NAT8L

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.

NAT8L Blocking Peptide (N-Term) - Protein Information

Name NAT8L (HGNC:26742)

Synonyms CML3

Function
Catalyzes the synthesis of N-acetylaspartate acid (NAA) from L-aspartate and acetyl-CoA (PubMed:19524112, PubMed:19807691, PubMed:20385109). Promotes dopamine uptake by regulating TNF-alpha expression (By similarity). Attenuates methamphetamine-induced inhibition of dopamine uptake (PubMed:20385109).

Cellular Location
Cytoplasm. Microsome membrane {ECO:0000250|UniProtKB:D3ZVU9}; Single-pass membrane protein. Mitochondrion membrane; Single-pass membrane protein. Endoplasmic reticulum

membrane {ECO:0000250|UniProtKB:Q3UGX3}; Single-pass membrane protein. Note=Its enzymatic activity contribution is quantitatively larger in mitochondrial compartment than in extramitochondrial compartment.

Tissue Location
Expressed in brain..

NAT8L Blocking Peptide (N-Term) - Protocols

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

- Blocking Peptides

NAT8L Blocking Peptide (N-Term) - Images

NAT8L Blocking Peptide (N-Term) - Background

Plays a role in the regulation of lipogenesis by producing N-acetylaspartate acid (NAA), a brain-specific metabolite. NAA occurs in high concentration in brain and its hydrolysis plays a significant part in the maintenance of intact white matter. Promotes dopamine uptake by regulating TNF-alpha expression. Attenuates methamphetamine-induced inhibition of dopamine uptake.

NAT8L Blocking Peptide (N-Term) - References

Hillier L.W.,et al.Nature 434:724-731(2005).
Brandenberger R.,et al.Nat. Biotechnol. 22:707-716(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Popsueva A.E.,et al.Dev. Biol. 234:483-496(2001).
Arun P.,et al.Neurochem. Int. 55:219-225(2009).