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LRTOMT Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP21148a

Specification

LRTOMT Blocking Peptide (N-term) - Product Information

Primary Accession Q8WZ04

LRTOMT Blocking Peptide (N-term) - Additional Information

Gene ID 220074

Other Names
Transmembrane O-methyltransferase, Catechol O-methyltransferase 2, Protein LRTOMT2, LRTOMT, COMT2, TOMT

Target/Specificity
The synthetic peptide sequence is selected from aa 2-16 of HUMAN LRTOMT

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.

LRTOMT Blocking Peptide (N-term) - Protein Information

Name TOMT (HGNC:55527)

Function
Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones (By similarity). Required for auditory function (PubMed:18794526). Component of the cochlear hair cell's mechanotransduction (MET) machinery. Involved in the assembly of the asymmetric tip-link MET complex. Required for transportation of TMC1 and TMC2 proteins into the mechanically sensitive stereocilia of the hair cells. The function in MET is independent of the enzymatic activity (By similarity).

Cellular Location
[Isoform 1]: Membrane; Single-pass membrane protein

LRTOMT Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides

LRTOMT Blocking Peptide (N-term) - Images

LRTOMT Blocking Peptide (N-term) - Background

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LRTOMT Blocking Peptide (N-term) - References

Ahmed Z.M.,et al.Nat. Genet. 40:1335-1340(2008).
Wan D.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Taylor T.D.,et al.Nature 440:497-500(2006).
Du X.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:14609-14614(2008).