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(Mouse) Shh Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP21229a

Specification

(Mouse) Shh Blocking Peptide (N-term) - Product Information

Primary Accession Q62226

(Mouse) Shh Blocking Peptide (N-term) - Additional Information

Gene ID 20423

Target/Specificity
The synthetic peptide sequence is selected from aa 58-71 of HUMAN Shh

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.

(Mouse) Shh Blocking Peptide (N-term) - Protein Information

Name Shh {ECO:0000312|MGI:MGI:98297}

Synonyms Hhg1

Function
[Sonic hedgehog protein]: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (PubMed:8824192, PubMed:<a href="http://www.uniprot.org/citations/7891723"

target="_blank">7891723). Both activities result in the cleavage of the full-length protein into two parts (ShhN and ShhC) followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated ShhN (PubMed:8824192). Both activities occur in the reticulum endoplasmic (PubMed:21357747). Once cleaved, ShhC is degraded in the endoplasmic reticulum (PubMed:21357747).

Cellular Location
[Sonic hedgehog protein N-product]: Cell membrane; Lipid-anchor. Note=The dual-lipidated sonic hedgehog protein N-product (ShhNp) is firmly tethered to the cell membrane where it forms multimers (PubMed:24522195). Further solubilization and release from the cell surface seem to be achieved through different mechanisms, including the interaction with DISP1 and SCUBE2, movement by lipoprotein particles, transport by cellular extensions called cytonemes or by the proteolytic removal of both terminal lipidated peptides.

Tissue Location
Expressed in a number of embryonic tissues including the notochord, ventral neural tube, floor plate, lung bud, zone of polarizing activity and posterior distal mesenchyme of limbs In the adult, expressed in lung and neural retina

(Mouse) Shh Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides