RECOMBINANT MOUSE SONIC HEDGEHOG, AMINO-TERMINAL PEPTIDE

Catalog # 02756 25 µg per vial

PRODUCT DESCRIPTION:

Mouse Sonic Hedgehog (Shh-N) is an important signaling molecule expressed during embryonic development. It is involved in regulating the patterning of the developing central nervous system, somite and limb. mShh may also play a role in the development of whisker, hair, foregut, tooth and bone in the mouse embryo.

SOURCE:

A DNA sequence encoding amino acid residues Cys 25-Gly 198 of mouse Shh fused to a 6X histidine tag at the carboxy-terminus was expressed in *E. coli*.

PURITY:

Greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per µg of the cytokine as determined by the LAL method.

FORMULATION:

Lyophilized from a 0.2 µm filtered solution in PBS containing 5% Trehalose and 50µg of bovine serum albumin per 1µg of cytokine.

RECONSTITUTION:

It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 50 µg/mL of the cytokine.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C.

Upon reconstitution, mouse Shh-N can be stored under sterile conditions at 2-4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

ACTIVITY:

Activity was measured by its ability to induce alkaline phosphatase production by C3H10T1/2 fibroblasts. The ED_{50} for this effect is 0.6 – 3 µg/mL.

THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.

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