Recombinant Mouse SHH

Cat No:HR2R2214

For research use only

Overview

Quantity	25 ?g
Gene Symbol	SHH
Gene ID	20423
Accession	Q62226
Alternative Name	Sonic hedgehog protein, HHG-1,
Species	Mouse
Source	E. coli
Description	Mouse SHH is part of a small group of secreted proteins that are vital for development in both vertebrates and invertebrates. Mouse SHH shares 99% homology with the human gene for SHH. Sonic HedgeHog is a protein that is vital in guiding the early embryo; it has been associated as the major inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. SHH binds to the patched receptor to activate the transcription of target genes. Sonic HedgeHog also regulates another factor, the gli oncogene. Recombinant Mouse SHH is a single, non-glycosylated polypeptide chain of 19.8 kDa.
Functions	The ED50 of this protein, as measured by its ability to induce alkaline phosphatase production in mouse myoblast cell, was in the range of 500ng-3 ug/mL.
Formulation	Lyophilized from a 0.2 ?m filtered solution in phosphate buffer and NaCl
Solubility	N/A
Appearance	Lyophilized Powder
Molecular Weight	19.8
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.