

Recombinant Human SHH

Cat No:HR2R1953

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	SHH
Gene ID	6469
Accession	Q15465
Alternative Name	SHH, HHG-1 Recombinant Human Sonic Hedgehog (SHH)
Species	Human
Source	E. coli
Description	Highly conserved proteins, members of the Hedgehog family are widely represented throughout the animal kingdom. The three known mammalian Hedgehog proteins; Sonic (SHH), Desert (DHH) and Indian (IHH) hedgehog share a high degree of sequence and structural identity. SHH is specifically known to be expressed in fetal intestine, liver, lung and kidney. Recombinant Human SHH represents the N-product (N-terminal domain with Cys24 substituted by an Ile-Val-Ile sequence) which retains all the known signalling capabilities.
Functions	Measured by its ability to induce alkaline phosphatase production by C3H10T1/2 mouse embryonic fibroblast cells. The ED(50) for this effect is typically 0.1? - 0.4 ?g/mL.
Formulation	Lyophilized from a 0.2 ?m filtered solution in Phosphate buffer and NaCl.
Solubility	A quick spin of the vial followed by reconstitution at 100 ?g/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Appearance	Lyophilized Powder
Molecular Weight	20.1
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.