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Sonic Hedgehog Protein (SHH) (AA 24-197, Cys24llelle-Mutant)



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3 Images

Overview	
Quantity:	50 μg
Target:	Sonic Hedgehog (SHH)
Protein Characteristics:	AA 24-197, Cys24llelle-Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Characteristics:	ED50 < 2.0 µg/mL, measured by its ability to induce alkaline phosphatase production by
	C3H/10T1/2 (CCL-226) Cells, corresponding to a specific activity of > 500 units/mg.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.
Target Details	
Target:	Sonic Hedgehog (SHH)
Abstract:	SHH Products
Background:	Sonic Hedgehog (Shh) is a member of the Hedgehog (Hh) family of highly conserved proteins
	which are widely represented throughout the animal kingdom. In mammal, there are three
	related Hh proteins, Sonic (Shh), Desert (Dhh) and Indian (Ihh). They share a high degree of
	amino-acid sequence identity (e.g., Shh and Ihh are 93 % identical). Sonic Hedgehog plays a role

in cell growth, cell specialization, and the normal shaping (patterning) of the body. Shh is also important for development of the brain and spinal cord (central nervous system), eyes, limbs, and many other parts of the body. Recombinant human Sonic Hedgehog (C24II) (rhShh) produced in E. coli is a single non-glycosylated polypeptide chain containing 175 amino acids. A fully biologically active molecule, rhShh has a molecular mass of 19.7 kDa analyzed by reducing SDS-PAGE.

Synonyms: Hhg1

Molecular Weight: 19.7 kDa, observed by reducing SDS-PAGE.

UniProt: Q15465

Pathways: Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation,

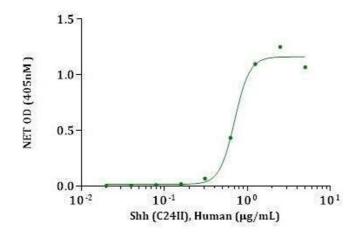
Tube Formation, Skeletal Muscle Fiber Development

Application Details

Restrictions: For Research Use only

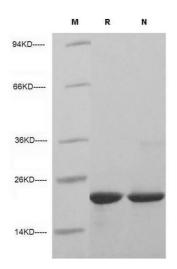
Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Sonic Hedgehog (C24II) (rhShh) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhShh should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months



Activity Assay

Image 1. Shh (C24II), Human induced alkaline phosphatase production in CCL-226 cells. The ED50 for this effect is less than 2.0ug/mL (0.58 ug/mL)



SDS-PAGE

Image 2. 4 μ g of SHH, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.

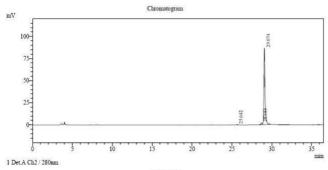


Image 3.

ector A Ch2 280nm						
Peak#	Ret. Time	Area	Height	Area %		
1	25.642	3016	364	0.342		
2	28.683	24977	2189	2.834		
3	29.074	853274	86370	96.824		
Total		881266	88922	100.000		