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## Sonic Hedgehog Protein (SHH) (AA 25-198, Cys25llelle-Mutant)



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### 3 Images

Overview			
Quantity:	50 μg		
Target:	Sonic Hedgehog (SHH)		
Protein Characteristics:	AA 25-198, Cys25llelle-Mutant		
Origin:	Mouse		
Source:	Escherichia coli (E. coli)		
Protein Type:	Recombinant		
Biological Activity:	Active		
Product Details			
Characteristics:	ED50<1.0 µg/mL, measured by its ability to induce alkaline phosphatase production by		
	C3H/10T1/2 (CCL-226) Cells, corresponding to a specific activity of>1.0× 10 <sup>3</sup> 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		
	threerelatedHh 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 mouseSonic Hedgehog(rmShh) produced in E.coli is a single non-glycosylated polypeptide chain containing 176 amino acids. A fully biologically active molecule, rmShh,is obtained by proprietary chromatographic techniques with a molecular mass of 19.8 kDa analyzed by reducing SDS-PAGE.

Synonyms: Hhg1

Molecular Weight:

19.8kDa, observed by reducing SDS-PAGE.

UniProt:

Q62226

Pathways:

Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

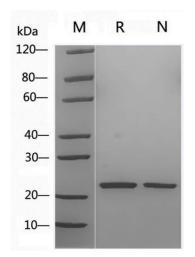
#### **Application Details**

Restrictions:

For Research Use only

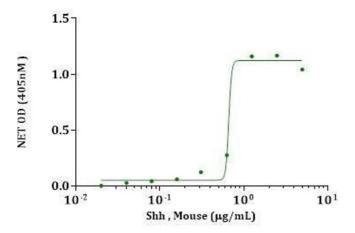
#### Handling

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



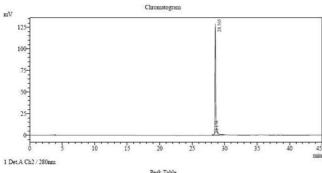
#### **SDS-PAGE**

**Image 1.** 2  $\mu$ g of SHH, Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.



#### **Activity Assay**

**Image 2.** Shh, Mouse induced alkaline phosphatase production in CCL-226 cells. The ED50 for this effect is less than 1.0ug/mL (0.8ug/mL)



#### Image 3.

Peak Table Peak Table						
Peak#	Ret. Time	Area	Height	Area %		
1	28.174	8418	714	0.780		
2	28.565	1070196	128945	99.220		
Terel		1070614	120650	100.000		