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### Sonic Hedgehog Protein (SHH) (AA 24-197)

**Images** 



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Overview	
Quantity:	100 μg
Target:	Sonic Hedgehog (SHH)
Protein Characteristics:	AA 24-197
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	Human Sonic Hedgehog (Shh) Protein

Purpose:	Human Sonic Hedgehog (Shh) Protein
Sequence:	Cys24-Gly197
Characteristics:	Recombinant Human Sonic Hedgehog (Shh) Protein is expressed from E.coli without tag.lt contains Cys24-Gly197.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.

#### **Target Details**

Target:	Sonic Hedgehog (SHH)
Alternative Name:	Sonic Hedgehog (SHH Products)
Background:	Sonic hedgehog (Shh) is a secreted protein with important roles in mammalian embryogenesis.

#### **Target Details**

	During tooth development, Shh is primarily expressed in the dental epithelium, from initiation to the root formation stages.	
Molecular Weight:	19.79 kDa kDa. The protein migrates to 23-25 kDa based on Tris-Bis PAGE result.	
UniProt:	Q15465	
Pathways:	Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development	

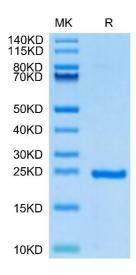
#### **Application Details**

Restrictions:	For Research Use only	
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#### Handling

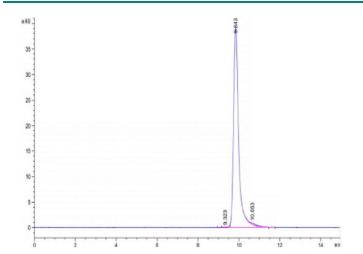
Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in PBS, 0.3M HaCl (pH 7.4).
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

#### **Images**



#### **SDS-PAGE**

 $\label{lemage 1.} \mbox{Human Sonic Hedgehog (Shh) on Tris-Bis PAGE} \\ \mbox{under reduced condition. The purity is greater than 95 \%} \; .$ 



## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human Sonic Hedgehog (Shh) is greater than 95 % as determined by SEC-HPLC.