

## Human recombinant Sonic Hedgehog (C24II) protein, AF

Catalog Number: PROTQ15465-6

### Overview

Product Name	Human recombinant Sonic Hedgehog (C24II) protein, AF
Description	Sonic hedgehog protein (SHH) plays a critical role in development of embryonic morphogenesis which mediate the process of organogenesis and central nervous system. The sonic hedgehog signal pathway also plays an important role in cancerous tumors like embryonic cerebellar tumor, prostate cancer tumours and medulloblastoma. Shh binds the receptor (Ptc1) that induce the smo protein to activate the downstream pathway, which induce the shh target gene expression.
Size	5ug,20ug,100ug
Tag	His-SUMO Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 31.86 kDa. The protein migrates as 35-45 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Testing in process

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

IIGPGRGFGKRRHPKLTPLAYKQFIPNVAEKTGASGRYEGKISRNSERFKELTPNYNPDIIFKDEENTGADRLMTQRCKDKLNALAISVMNQWPGVKL  
RVTEGWDEDGHHSEESLHYEGRAVDITTSRDRSKYGMLARLAVEAGFDWVYYESKAHIHCSVKAENSVAAKSGG

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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