

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name:	Shh (C24II), Human
Cat. No.:	Z03067-10; Z03067-50; Z03067-1
Lot No.:	P50031510
Size:	10 µg/vial; 50 µg/vial; 1 mg/vial
Storage Condition:	Lyophilized recombinant human Sonic Hedgehog (C24II) (rhShh) remains stable up to 6 months at lower than -70°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. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

### Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE&HPLC)	> 95%	Conformed
Biological Activity (ED <sub>50</sub> )	< 2 µg/mL	Conformed
Molecular Weight	19.7 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/µg	Conformed

### Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by: Joe Wang Date: 02/06/2016  
Protein Products Department