

# Product information

## SHH, 25-198 aa

Mouse, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0537

**Full Name:** Sonic hedgehog protein

**NCBI Accession No.:** NP\_033196

**Synonyms:** Dsh, Hhg1, Hx, Hx13.

**Description:** SHH is one of three proteins in the mammalian signaling pathway family called hedgehog, the others being desert hedgehog (DHH) and Indian hedgehog (IHH). This protein is the best studied ligand of the hedgehog signaling pathway. It plays a key role in regulating vertebrate organogenesis. SHH contains amino-terminal signal peptides and apparently function as secreted proteins involved in the mediation of various cell-cell interactions. Recombinant mouse SHH protein, fused to His-tag at C-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

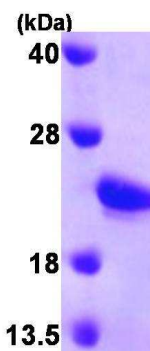
**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol  
1mM DTT.

**Molecular Weight:** 20.8 kDa (183aa)

**Purity:** > 95% by SDS – PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** < 1.0 EU per 1 µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

### Sequences of amino acids:

MCGPGRGFGK RRHPKKLTPL AYKQFIPNVA EKT LGASGRY EGKITRNSER FKELTPNYNP DII FKDEENT GADRLMTQRC KDKLNALAI S  
VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTSR RDRSKYGMLA RLAVEAGFDW VYYESKAHIIH CSVKAENSV A AKSGGLEHHH  
HHH

### General references:

Bak M., *et al.* (2004) *Brain Res Mol Brain Res.* 126(2):207-11.

Dassule HR., *et al.* (2000) *Development.* 127(22):4775-85.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**