

SHH, 25-198 aa, Mouse, His-tagged, Recombinant, E.coli

Cat.NO.: TP03934

3th Edition

Synonyms: Sonic hedgehog protein, 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)

Sequences:

MCGPGRGFGKRRHPKLTPLAYKQFIPNVAEKT LGASGRYEGKITRNSERFKELTPNYNPDIIIFKDEENTGADRLMT
QRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSRDRDRSKYGMLARLAVEAGFDWV
YYESKAHIHCSVKAENSVAAKSGGLEHHHHHH

Purity: > 95% by HPLC

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

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

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.