

**SHH, 24-197aa, Human, His tag, E.coli**

**Cat.NO.: TP03933**

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3th Edition

**Synonyms:** Sonic hedgehog protein, HHG1, HLP3, HPE3, SMMCI, TPT, TPTPS

**Description:** SHH, also known as Sonic hedgehog protein, is one of three proteins in the mammalian signaling pathway family called hedgehog. It plays a key role in regulating vertebrate organogenesis, such as in the growth of digits on limbs and organization of the brain. It controls cell division of adult stem cells and has been implicated in development of some cancers. Recombinant human SHH protein, fused to His-tag at C-terminus was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl

**Molecular Weight:** 20.7 kDa (183aa) confirmed by MALDI-TOF

**Sequences:**

MCGPGRGFGKRRHPKLTPLAYKQFIPNVAEKT LGASGRYEGKISRNSERFKELTPNYNPDIIIFKDEENTGADRLMT  
QRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSRDRSKYGMLARLAVEAGFDWV  
YYESKAHIHCSVKAENSVAAKSGGLEHHHHHH

**Purity:** > 95% by HPLC

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

**Endotoxin Level:** <1.0 EU per 1 ug 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.