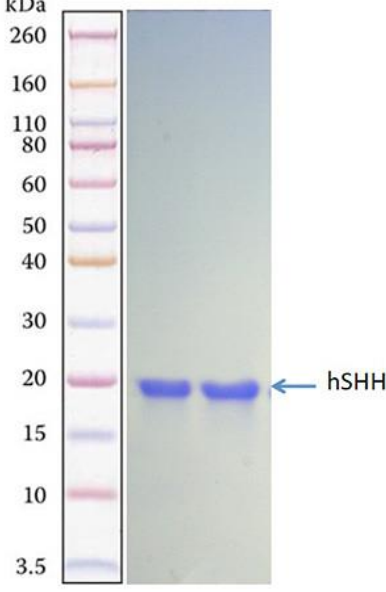


Product Name	Recombinant human Sonic Hedgehog (SHH)-Animal Free-Ready-to-Use
Sizes	5 µg, 25 µg, 100 µg, 500 µg, 1 mg
Synonym(s)	SHH, HHG1, HLP3, HPE3, MCOPCB5, SMMCI, TPT, TTPPS, Sonic hedgehog, ShhNC
Species	Human
UniProt Consortium	Q15465
Introduction	Sonic hedgehog homolog (SHH) is one of three proteins in the mammalian signaling pathway family called hedgehog, the others being desert hedgehog (DHH) and Indian hedgehog (IHH). SHH is the best studied ligand of the hedgehog signaling pathway. It plays a key role in regulating vertebrate organogenesis, such as in the growth of digits on limbs and organization of the brain. Sonic hedgehog is the best-established example of a morphogen as defined by Lewis Wolpert's French flag model—a molecule that diffuses to form a concentration gradient and has different effects on the cells of the developing embryo depending on its concentration. SHH remains important in the adult. It controls cell division of adult stem cells and has been implicated in development of some cancers.
Amino Acid Sequence	IIGPGRGFGKRRHPKKLTPLAYKQFIPNVAEKT LGASGRYEGKITRN SERFKELTPNYNPDIIFKDEENTGADRLMTQRCKDKLNALAISVMNQ WPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSRDRDRSKYGM LARLAVEAGFDWVYYESKAHHC SVKAENSVAAKSGG
Tag	N/A
Expression source	<i>E. coli</i>
MW	19.7 kDa
Purity	Greater than 98%, as determined by SDS-PAGE
Formulation	1x PBS, 0.1 M NaCl
Shipping	Shipped on dry ice.

Storage/stability	Upon delivery aliquot and store at -80 °C. Avoid multiple freeze-thaw cycles. The protein is stable for 12 months at -80 °C, for 2-4 weeks at 4°C.
Application	Protein binding assay, small molecule inhibitor screening, substrate of kinase, antigen, ELISA, Western blot, crystallization and co-crystallization studies.
hSHH Protein Image	 <p>Western blot analysis of hSHH protein. The y-axis represents molecular weight in kDa, with markers at 260, 160, 110, 80, 60, 50, 40, 30, 20, 15, 10, and 3.5. Two lanes are shown. The right lane contains a prominent blue band at approximately 20 kDa, indicated by a blue arrow and labeled 'hSHH'.</p>

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