

Synonyms	Hhg1
Description	<p>Sonic Hedgehog (Shh) is a member of the Hedgehog (Hh) family of highly conserved proteins which are widely represented throughout the animal kingdom. In mammal, there are three related Hh proteins, Sonic (Shh), Desert (Dhh) and Indian (Ihh). They share a high degree of amino-acid sequence identity (e.g., Shh and Ihh are 93% identical). Sonic Hedgehog plays a role in cell growth, cell specialization, and the normal shaping (patterning) of the body. Shh is also important for development of the brain and spinal cord (central nervous system), eyes, limbs, and many other parts of the body.</p> <p>Recombinant human Sonic Hedgehog (C24II) (rhShh) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 175 amino acids. A fully biologically active molecule, rhShh has a molecular mass of 19.7 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	Q15465
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 2.0 µg/ml, measured by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) Cells, corresponding to a specific activity of > 500 units/mg.
Sequence	<p>IIGPGRGFGK RRHPKLTPL AYKQFIPNVA EKTLGASGRY EGKISRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC KDKLNALAIS VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTSR RDRSKYGMLA RLAVEAGFDW VYYESKAHIH CSVKAENSVV AKSGG</p>

Properties

Measured Molecular Weight	19.7 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	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.
Note	For research use only

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