

## 重组鼠源音猬因子(SHH)

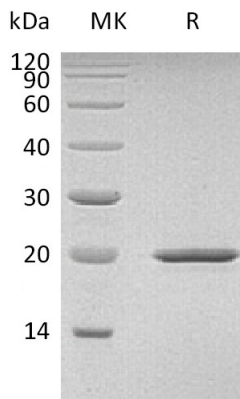
Sonic Hedgehog, Mouse, Recombinant

Cat. No.: MA1337-1 Size: 10 $\mu$ g

<b>Source:</b>	E.coli
<b>Description:</b>	Recombinant Mouse Sonic Hedgehog is produced by our E.coli expression system and the target gene encoding Cys25-Gly198 is expressed.
<b>Accession:</b>	<a href="#">Q62226</a>
<b>Known As:</b>	Sonic Hedgehog Protein; SHH; HHG-1; SHH
<b>Predicted Mol Mass:</b>	19.8 KDa
<b>Apparent Mol Mass:</b>	20 KDa, reducing conditions
<b>Endotoxin:</b>	< 0.01 EU/ $\mu$ g as determined by LAL test.
<b>Formulation:</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.
<b>Reconstitution:</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage:</b>	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
<b>Background:</b>	Mouse Sonic Hedgehog Homolog (SHH) belongs to a three-protein family called Hedgehog. The other two family members are Indian Hedgehog (IHH) and Desert Hedgehog (DHH). Hedgehog proteins are key signaling molecules in embryonic development. SHH is expressed in various embryonic tissues and plays critical roles in regulating the patterning of many systems, such as limbs and brain. SHH also plays an important role in adult, including the division of adult stem cells and the development of certain cancers and other diseases. Mouse Shh is synthesized as a 437 aa precursor that contains a 24 aa signal sequence and a 413 aa mature region. The mature region is autocatalytically processed into a nonglycosylated, 20 kDa, 174 aa Nterminal fragment (ShhN), and a catalytic processing, glycosylated, 34 kDa, 239 aa Cterminal fragment. The 20 kDa ShhN fragment is the core of the active hedgehog molecule. Mouse ShhN is 99%, 98%, and 100% aa identical to human, rat and gerbil ShhN, respectively.



**Purity-SDS-PAGE:**



Greater than 95% as determined by reducing SDS-PAGE.

