

## Product datasheet for **TP727134**

### Shh Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Sonic Hedgehog/SHH (C25II)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Cys25-Gly198(Cys25Ile-Ile)
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, 1mM DTT, pH 7.4.
Note:	Recombinant Mouse Sonic Hedgehog is produced by our E.coli expression system and the target gene encoding Cys25-Gly198(Cys25Ile-Ile) is expressed.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	20423
UniProt ID:	<a href="#">Q62226</a>
Synonyms:	Sonic Hedgehog Protein; SHH; HHG-1; SHH
Summary:	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 N-terminal fragment (Shh <sup>N</sup> ), and a catalytic <sup>1</sup> processing, glycosylated, 34 kDa, 239 aa C-terminal fragment. The 20 kDa Shh <sup>N</sup> fragment is the core of the active hedgehog molecule. Mouse Shh <sup>N</sup> is 99%, 98%, and 100% aa identical to human, rat and gerbil Shh <sup>N</sup> , respectively.



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