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## Product Datasheet

### Recombinant Mouse SHH (C25II) EBT-EPT111

Article Name	Recombinant Mouse SHH (C25II)
Biozol Catalog Number	EBT-EPT111
Supplier Catalog Number	EPT111
Alternative Catalog Number	EBT-EPT111-50
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Mouse Sonic Hedgehog is produced by our E.coli expression system and the target gene encoding Cys25-Gly198(Cys25Ile-Ile) is expressed....
Molecular Weight	Molecular weight: 19.8 KDa. Apparent molecular weight: 18-20 KDa, reducing conditions
UniProt	<a href="#">Q62226</a>
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Endotoxin: Less than 0.001 ng/µg (0.01 EU/µg) as determined by LAL test. Background: 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.