

Recombinant Mouse SHH (C25II)

Catalog #	EPT111
Expression Host	E.coli
DESCRIPTION	Recombinant Mouse Sonic Hedgehog is produced by
	our E.coli expression system and the target gene
	encoding Cys25-Gly198(Cys25lle-lle) is expressed.
Accession	Q62226
Synonyms	Sonic Hedgehog Protein; SHH; HHG-1; SHH
Mol Mass	19.8 KDa
AP Mol Mass	18-20 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.001 ng/ μ g (0.01 EU/ μ g) as determined by
	LAL test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of 20mM
	PB, 150mM NaCl, 1mM DTT, pH 7.4.
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by
	vortex or pipetting.

It is not recommended to reconstitute to a



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concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

STORAGELyophilized 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.

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



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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 - N), and a catalytic - processing,glycosylated, 34 kDa, 239 aa C terminal fragment. The 20 kDa Shh-N fragment is the core of the active hedgehog molecule. Mouse Shh-N is 99%, 98%, and 100% aa identical to human, rat and gerbil Shh-N, respectively.







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