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32-8353: Recombinant Mouse Sonic Hedgehog/SHH

Gene ID: Shh
Gene ID: 20423
Uniprot ID: Q62226

Description

Source: E.coli. MW :19.8kD.

Recombinant Mouse Sonic Hedgehog is produced by our E.coli expression system and the target gene encoding Cys25-Gly198 is expressed. 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 catalyticprocessing, 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.

Product Info

Amount : $10 \mu g / 50 \mu g$

Content: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM DTT, pH 7.4.

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.

Amino Acid: MCGPGRGFGKRRHPKKLTPLAYKQFIPNVAEKTLGASGRYEGKITRNSERFKELTPNYNPDIIFKDE

ENTGADRLMTQRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSDR

DRSKYGMLARLAVEAGFDWVYYESKAHIHCSVKAENSVAAKSGG

Application Note

Storage condition:

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.