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32-20504: Recombinant Murine Sonic Hedgehog (Shh)(Discontinued)

Reactivity : Mouse
Alternative Name : Hhg-1

Description

Source:E.coli Members of the Hedgehog (Hh) family are highly conserved proteins that are widely represented throughout the animal kingdom. The three known mammalian Hh proteins, Sonic (Shh), Desert (Dhh) and Indian (Ihh), are structurally related, and share a high degree of amino acid sequence identity (e.g. Shh and Ihh are 93% identical). The biologically active form of each Hh molecule is obtained by autocatalytic cleavage of their precursor proteins, and each corresponds to approximately one half of the N-terminal portion of the precursor molecule. Although Hh proteins have unique expression patterns and distinct biological roles within their respective regions of secretion, they use the same signaling pathway and can be substituted for one another in experimental systems. Recombinant Murine Sonic Hedgehog is a 20.0 kDa protein consisting of 176 amino acid residues, including an N-terminal Ile-Val-Ile sequence substituted for the naturally occurring, chemically modified Cys residue.

Product Info

Amount : 5 µg / 25 µg
Purification : Purity:>= 90% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : IVIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKITRNSE RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGG

Application Note

Determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells. The expectedÃ□Â ED_{50}Ã□Â for this effect is 0.5-1.0 Ã□Âµg/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.