



Sonic HedgeHog Human Recombinant

Item Number rAP-0437

Synonyms SHH, HHG-1, HHG1, Sonic hedgehog protein, TPT, HLP3, HPE3, SMMCI, TPTPS, MCOPCB5.

Description Sonic HedgeHog Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain

containing 179 amino acids and having a molecular mass of 20.1kDa. The Cys at position 2 has

been substituted with 2 Ile's.

Uniprot Accesion Number Q15465

Amino Acid Sequence MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKISRNSE RFKELTPNYN PDIIFKDEEN

TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRALDITTS

DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGGCFP

Source Escherichia Coli.

Physical Appearance and Stability

Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Human Sonic HedgeHog although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Sonic HedgeHog should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent

freeze-thaw cycles.

Formulation and Purity SHH is lyophilized from 10mM Na3PO4, pH 7.5. Greater than 97.0% as determined by SDS-PAGE.

Application

Solubility It is recommended to reconstitute the lyophilized SHH in sterile 10mM Na3PO4 pH 7.5 not less than 100µg/

ml, which can then be further diluted to other aqueous solutions.

Biological Activity

The activity is measured by the dose-dependent induction of alkaline phosphatase production by

C3H/10T1/2 (CCL-226) fibroblasts and is 1.2-1.8ug/ml corresponding to a specific activity of 800U/mg.

Shipping Format and Condition Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only