

Product Datasheet

RecombinantShh(C25II),Mouse (orb1494773)

Description	Sonic Hedgehog (Shh) is a member of the Hedgehog (Hh) family of highly conserved proteins which are widely represented throughout the animal kingdom. In mammal, there are three related Hh proteins, Sonic (Shh), Desert (Dhh) and Indian (Ihh). They share a high degree of amino-acid sequence identity (e.g., Shh and Ihh are 93% identical). Sonic Hedgehog plays a role in cell growth, cell specialization, and the normal shaping (patterning) of the body. Shh is also important for development of the brain and spinal cord (central nervous system), eyes, limbs, and many other parts of the body. Recombinant mouse Sonic Hedgehog (C25II) (rmShh) produced in E.coli is a single non-glycosylated polypeptide chain containing 175 amino acids. A fully biologically active molecule, rmShh has a molecular mass of 19.7 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant mouse Sonic Hedgehog (C25II) (rmShh) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmShh should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH2O at 100 μg/ml.
Protein Sequence	IIG PGRGFGKRRH PKKLTPLAYK QFIPNVAEKT LGASGRYEGK ITRNSERFKE LTPNYNPDII FKDEENTGAD RLMTQRCKDK LNALAISVMN QWPGVKLRVT EGWDEDGHHS EESLHYEGRA VDITTSRDRDR SKYGMLARLA VEAGFDWVYY ESKAHIHCSV KAENSVAAKS GG
Purity	> 95% by SDS-PAGE and HPLC analyses.
Source	Escherichia coli.

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MW 19.7 kDa, observed by reducing SDS-PAGE.

Expiration Date 6 months from date of receipt.

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