

Shh

Recombinant Mouse Sonic Hedgehog

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|--------------------|---------|------------------|--------|
| Catalog No. | CRS161A | Quantity: | 5 µg |
| | CRS161B | | 25 µg |
| | CRS161C | | 1.0 mg |
| | CRS161D | | 100 µg |

Alternate Names: Shh, HHG-1, Sonic hedgehog protein

Description: Sonic hedgehog (SHH) is a member of a small group of secreted proteins that are essential for development in both vertebrates and invertebrates. Three mammalian hedgehog genes (sonic, desert, Indian) share about 60% homology and all signal via the same receptors.

Gene ID: 20423

UniProt ID: Q62226

Source: *E. coli*

Molecular Weight: 19.8 kDa (176 aa), monomer

Formulation: Lyophilized from sterile filtered (0.2 micron) 10 mM sodium phosphate, pH 7.5.

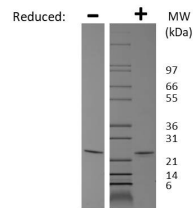
Purity: ≥ 95% by reducing and non-reducing SDS-PAGE.

Endotoxin Level: ≤ 1 EU/µg, by kinetic LAL analysis.

Amino Acid Sequence: MIIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKITRNSE
RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDKLNALAI SVMNQWPGVK
LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRSKYGML ARLAVEAGFD
WVYYESKAHI HCSVKAENSV AAKSGG

Reconstitution: **Centrifuge vial prior to opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.



Mouse SHH Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse SHH is predicted to have a MW of 19.8 kDa.

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