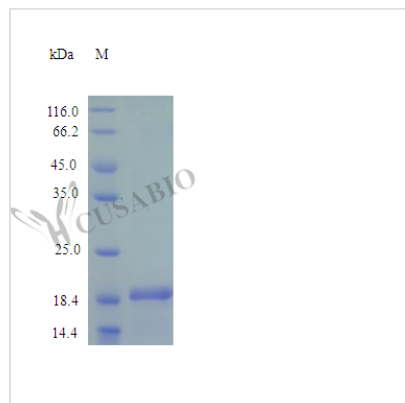




# Recombinant Human Sonic hedgehog protein (SHH), partial (Active)

<b>Product Code</b>	CSB-AP000371HU
<b>Abbreviation</b>	Recombinant Human SHH protein, partial (Active)
<b>Uniprot No.</b>	Q15465
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered 20 mM PB, pH 7.4, 150mM NaCl
<b>Product Type</b>	Other
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED50 as determined by inducing alkaline phosphatase production of murine C3H/10T1/2 cells is less than 1 µg/ml, corresponding to a specific activity of >1.0x10 <sup>3</sup> IU/mg.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Sequence</b>	IVIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKISRNSE RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRAVDITTS DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGG
<b>Research Area</b>	Cancer
<b>Source</b>	E.coli
<b>Target Names</b>	SHH
<b>Expression Region</b>	22-197aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag-Free
<b>Mol. Weight</b>	19.8 kDa
<b>Protein Length</b>	Partial(22-24:LAC→IVI)
<b>PubMed ID</b>	7590746; 12853948; 12690205; 9593755; 7720571; 12837695; 16335952; 18417549; 19847792; 24456159; 24965254; 10753901; 19561609; 20504762; 8896572; 9302262; 10441331; 10556296; 11471164; 11479728; 12503095; 15103725; 15107988; 15221788; 15942952; 15942953;
<b>Image</b>	



## Description

Recombinant Human SHH is a high-quality, tag-free partial protein corresponding to the 25-197aa expression region of the Sonic hedgehog protein, a critical component in cancer research. Expressed in *E. coli*, this product boasts remarkable purity, greater than 98% as determined by both SDS-PAGE and HPLC. With endotoxin levels under 1.0 EU/μg, as assessed by the LAL method, this protein ensures minimal interference in experimental setups. Fully biologically active when compared to the standard, SHH's ED<sub>50</sub> is established by its ability to induce alkaline phosphatase production in murine C3H/10T1/2 cells at less than 1 μg/mL, yielding a specific activity of  $> 1.0 \times 10^3$  IU/mg. The product is supplied as a lyophilized powder for ease of storage and application in various research contexts.

## Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.