



# Recombinant Human Desert hedgehog protein (DHH)

<b>Product Code</b>	CSB-EP006851HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O43323
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	CGPGRGPV GRRRYARKQL VPLLYKQFVP GVPERTLGAS GPAEGRVARG SERFRDLVPN YNPDIIFKDE ENSGADRLMT ERCKERVNAL AIAVMNMWPG VRLRVTEGWD EDGHHAQDSL HYEGRALDIT TSDRDRNKYG LLARLAVEAG FDWVYYESRN HVHVSVKADN SLAVRAGGCF PGNATVRLWS GERKGLRELH RGDWVLAADA SGRVVPTPVL LFLDRDLQRR ASFVAVETEW PPRKLLLTWP HLVFAARGPA PAPGDFAPVF ARRLRAGDSV LAPGGDALRP ARVARVAREE AVGVFAPLTA HGTLLVNDVL ASCYAVLESH QWAHRAFAPL RLLHALGALL PGGAVQPTGM HWYSRLLYRL AEELLG
<b>Source</b>	E.coli
<b>Target Names</b>	DHH
<b>Protein Names</b>	Recommended name: Desert hedgehog protein Short name= DHH Alternative name(s): HHG-3 Cleaved into the following 2 chains: 1. Desert hedgehog protein N-product 2. Desert hedgehog protein C-product
<b>Expression Region</b>	23-396
<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 type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a member of the Hedgehog family. The hedgehog gene family encodes signaling molecules that play an important role in regulating morphogenesis. This protein is predicted to be made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the organism. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. This protein may be involved in both male gonadal differentiation and perineurial development.
<b>Reconstitution</b>	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.