

Human CellExp SHH, human recombinant protein
SHH, HHG-1, Sonic hedgehog, HLP3, HPE3, SMMCI, TPT, TPTPS
Catalog # PBV10853r**Specification**

Human CellExp SHH, human recombinant protein - Product infoPrimary Accession
Calculated MW[Q15465](#)

This protein is fused with 6 × His tag at the C-terminus, has a calculated MW of 20.4 kDa. The predicted N-terminus is Cys 24. DTT-reduced protein migrates as 22 kDa. KDa

Human CellExp SHH, human recombinant protein - Additional Info

Gene ID **6469**
Gene Symbol **SHH**
Other Names
SHH, HHG-1, Sonic hedgehog, HLP3, HPE3, SMMCI, TPT, TPTPS

Gene Source **Human**
Source **HEK 293 cells**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Target/Specificity
SHH

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp SHH, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp SHH, human recombinant protein - Images**Human CellExp SHH, human recombinant protein - Background**

Sonic hedgehog protein (SHH) also known as HHG-1, which belongs to the hedgehog family. SHH is expressed in fetal intestine, liver, lung, and kidney and not expressed in adult tissues. Sonic hedgehog protein can be cleavage into sonic hedgehog protein N-product and sonic hedgehog protein C-product by autolysis. SHH binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. In the absence of SHH, PTC represses the constitutive signaling activity of SMO. Also regulates another target, the gli oncogene. Intercellular signal essential for a variety of patterning events during development. The C-terminal domain displays an auto-proteolysis activity and a cholesterol transferase activity. The N-product is the active species in both local and long-range signaling, whereas the C-product has no signaling activity.

Human CellExp SHH, human recombinant protein - References

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Pepinsky R.B.,et al.J. Biol. Chem. 273:14037-14045(1998).