

Recombinant Human Hedgehog-interacting protein/HHIP Protein

Catalog No.: RP00230 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	64399	Q96QV1

Tags

C-His

Synonyms

HHIP;HIP

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
74.36 kDa	80-100 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Hip (Hedgehog-interacting protein) is a type I transmembrane protein identified for its ability to bind biologically active Sonic Hedgehog. The hedgehog (HH) proteins are evolutionarily conserved protein, which are important morphogens for a wide range of developmental processes, including anteroposterior patterns of limbs and regulation of left-right asymmetry in embryonic development. Multiple cell-surface receptors are responsible for transducing and/or regulating HH signals. The Hip protein is a highly conserved, vertebrate-specific inhibitor of HH signaling. It interacts with all three HH family members, SHH, IHH and DHH. Two single nucleotide polymorphisms (SNPs) near this gene are significantly associated with risk of chronic obstructive pulmonary disease (COPD). A single nucleotide polymorphism in this gene is also strongly associated with human height.

Basic Information

Description

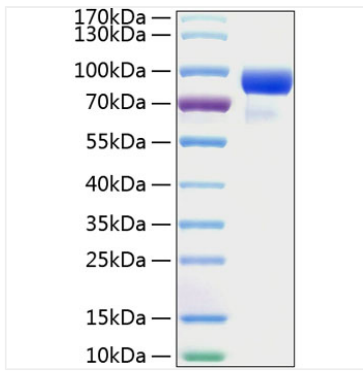
Recombinant Human Hedgehog-interacting protein/HHIP Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe18-Asp670) of human Hip (Accession #NP_071920.1) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Hedgehog-interacting protein/HHIP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80-100 kDa.