

Recombinant Human Notch 2 Protein

Catalog No.: RP02462 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4853	Q04721

Tags

C-His&Avi

Synonyms

NOTCH2;AGS2;HJCYS;hN2;notch 2

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
57 kDa	68-78 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the tube 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.

Background

Human Notch-2 is a 300 kDa type I transmembrane glycoprotein that is one of four human Notch homologues involved in developmental processes. Although Notch proteins are structurally and functionally similar, deletion of either Notch-1 or Notch-2 is lethal, showing that not all functions overlap. Notch-2 functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus.

Basic Information

Description

Biotinylated Recombinant Human Notch 2 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Leu26-Gln530) of Human Notch 2 fused with His tag and Avi tag at the C-terminal.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

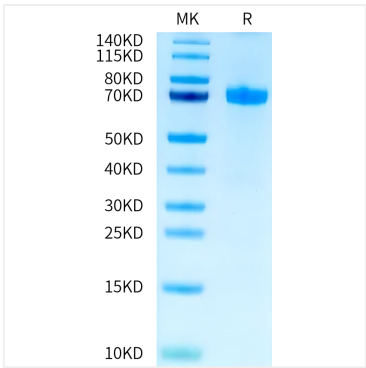
Contact

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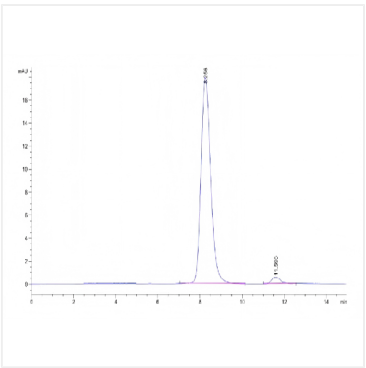
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Validation Data



Recombinant Human Notch 2 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human Notch 2 is greater than 95% as determined by SEC-HPLC.