

Human Notch 2 Protein

Cat. No. NOT-HM402

Description

Source	Recombinant Human Notch 2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Leu26-Gln530.
Accession	Q04721
Molecular Weight	The protein has a predicted MW of 57 kDa. Due to glycosylation, the protein migrates to 68-78 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

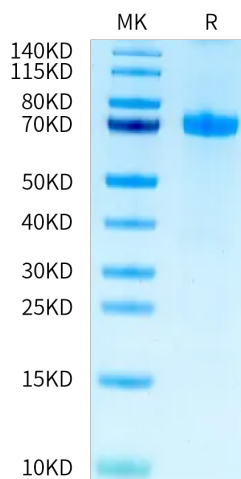
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

Assay Data

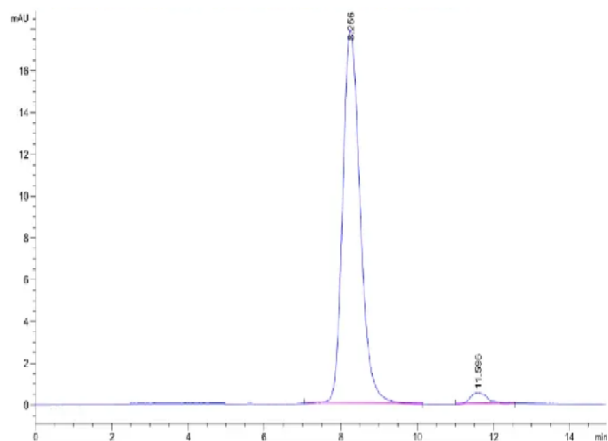
Tris-Bis PAGE



Human Notch 2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



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