# Human NOTCH2 Protein, Fc Tag (MALS verified)

Catalog # NO2-H5255

## Synonym

NOTCH2,hN2,N2ECD

## Source

Human NOTCH2, Fc Tag(NO2-H5255) is expressed from human 293 cells (HEK293). It contains AA Leu 26 - Gln 530 (Accession # Q04721-1).
Predicted N-terminus: Leu 26

## Molecular Characterization

| NOTCH2(Leu 26 - Gln 530)<br>Q04721-1 | Fc(Pro 100 - Lys 330)<br>P01857 |
|---|---|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 80.5 kDa. The protein migrates as 90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

***For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***

## Storage

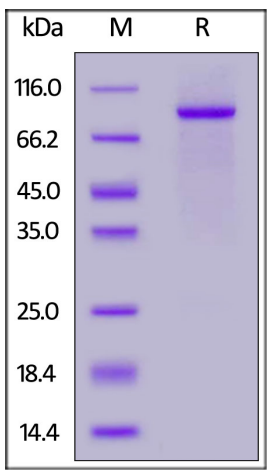
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

***Please avoid repeated freeze-thaw cycles.***

This product is stable after storage at:

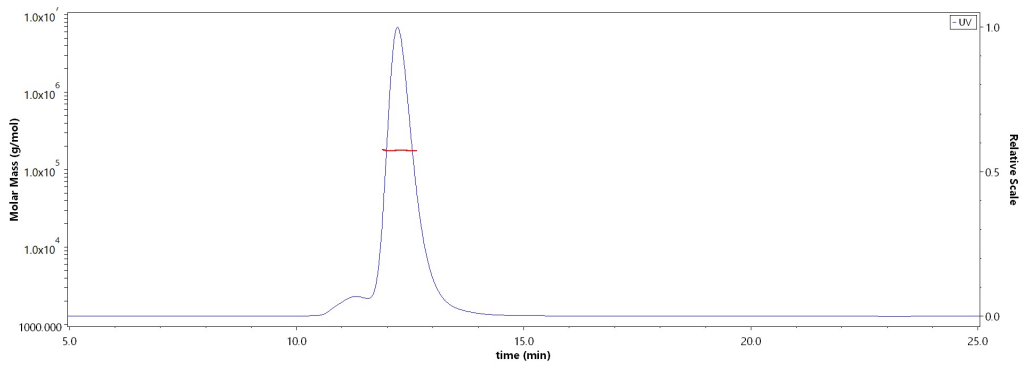
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



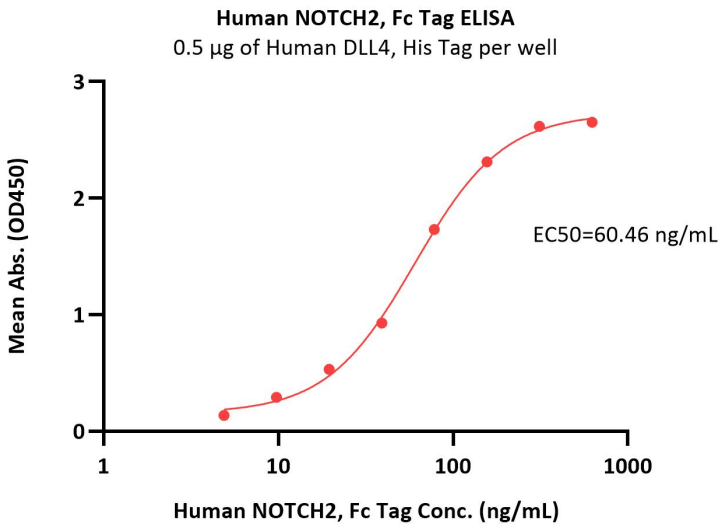

Human NOTCH2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS

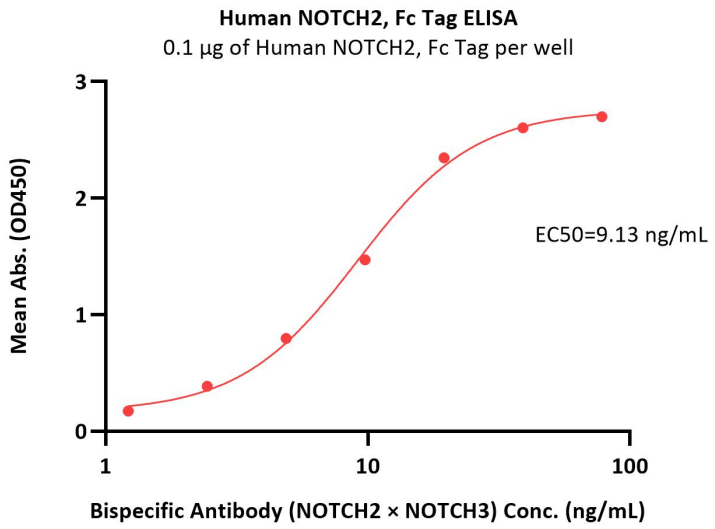



The purity of Human NOTCH2, Fc Tag (Cat. No. NO2-H5255) is more than 85% and the molecular weight of this protein is around 175-190 kDa verified by SEC-MALS.
Report

## Bioactivity-ELISA

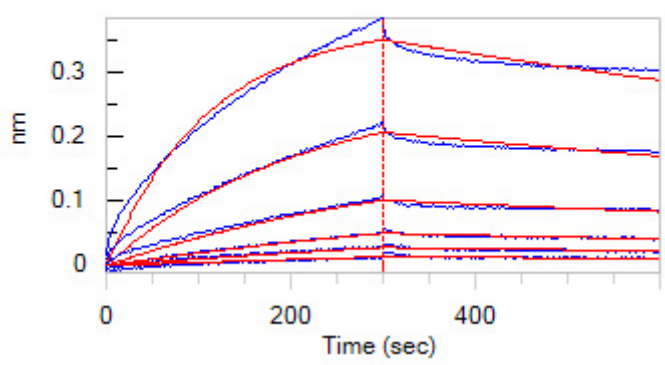



Immobilized Human DLL4, His Tag (Cat. No. DL4-H5227) at 5 μg/mL (100 μL/well) can bind Human NOTCH2, Fc Tag (Cat. No. NO2-H5255) with a linear range of 5-78 ng/mL (QC tested).




Immobilized Human NOTCH2, Fc Tag (Cat. No. NO2-H5255) at 1 μg/mL (100 μL/well) can bind Bispecific Antibody (NOTCH2 × NOTCH3) with a linear range of 1-20 ng/mL (Routinely tested).

## Bioactivity-BLI




Loaded Human NOTCH2, Fc Tag (Cat. No. NO2-H5255) on Protein A Biosensor, can bind Human DLL4, His Tag (Cat. No. DL4-H5227) with an affinity constant of 77.6 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

## Background

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 . Affects the implementation of differentiation, proliferation and apoptotic programs (By similarity). Involved in bone remodeling and homeostasis. In collaboration with RELA/p65 enhances NFATc1 promoter activity and positively regulates RANKL-induced osteoclast differentiation . Positively regulates self-renewal of liver cancer cells .