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) Q04721-1	Fc(Pro 100 - Lys 330) 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.

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

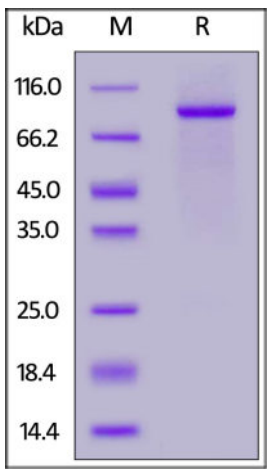
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

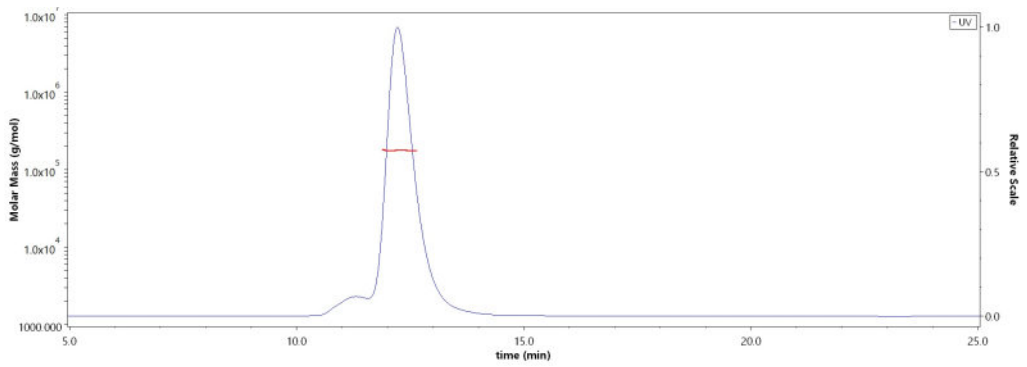
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



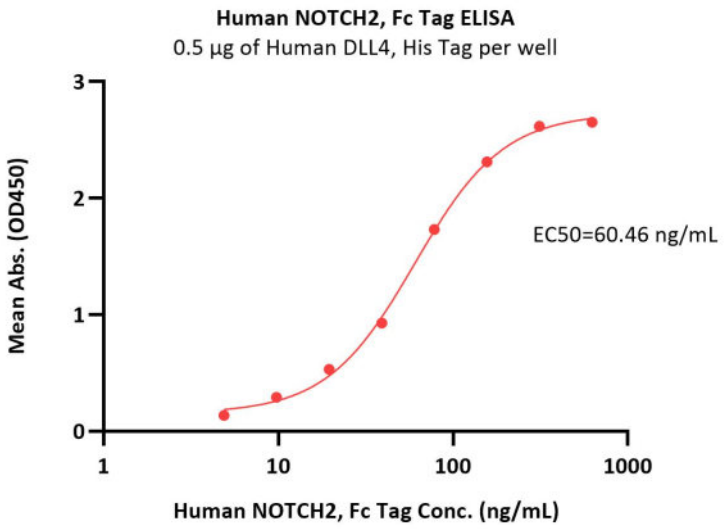
Human NOTCH2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

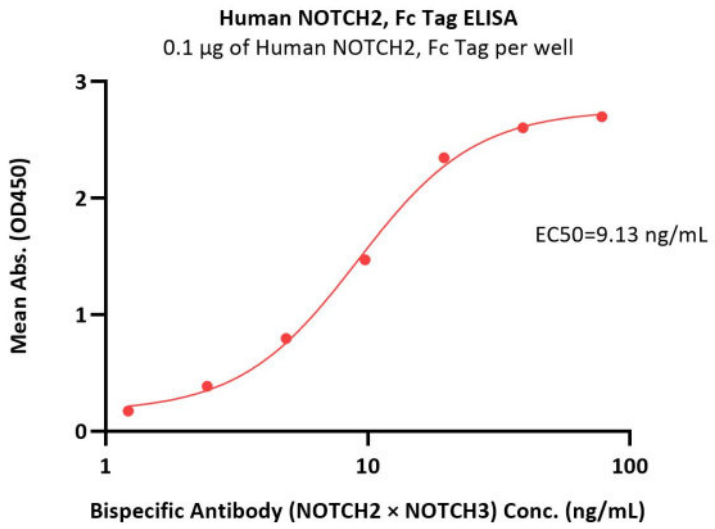


The purity of Human NOTCH2, Fc Tag (Cat. No. NO2-H5255) is more than 85% and the molecular weight of this protein is around 175-190 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA

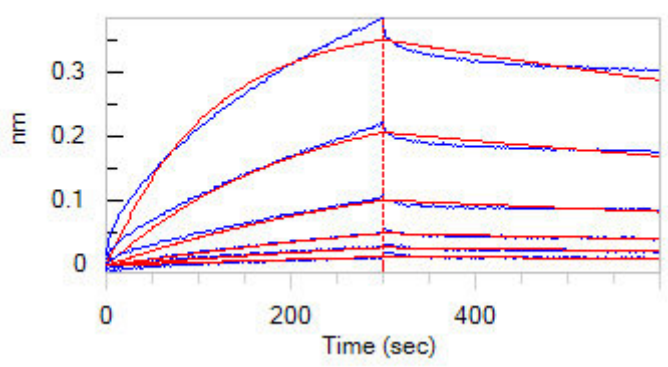


Immobilized Human DLL4, His Tag (Cat. No. DL4-H5227) at 5 μg/mL (100 μL/well) can bind Human NOTCH2, Fc Tag (Cat. No. NO2-H5255) with a linear range of 5-78 ng/mL (QC tested).



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 .

Clinical and Translational Updates