

**Synonym**

Notch-3,NOTCH3

**Source**

Human NOTCH3, Fc Tag(NO3-H5255) is expressed from human 293 cells (HEK293). It contains AA Ala 40 - Glu 467 (Accession # [Q9UM47-1](#) ).

**Molecular Characterization**

NOTCH3(Ala 40 - Glu 467) Q9UM47-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 71.4 kDa. The protein migrates as 65-75 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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.*

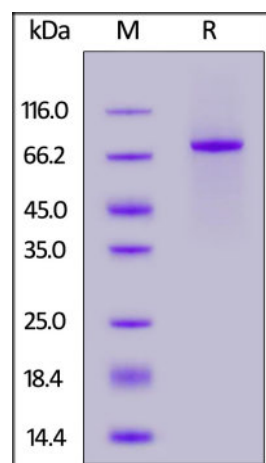
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

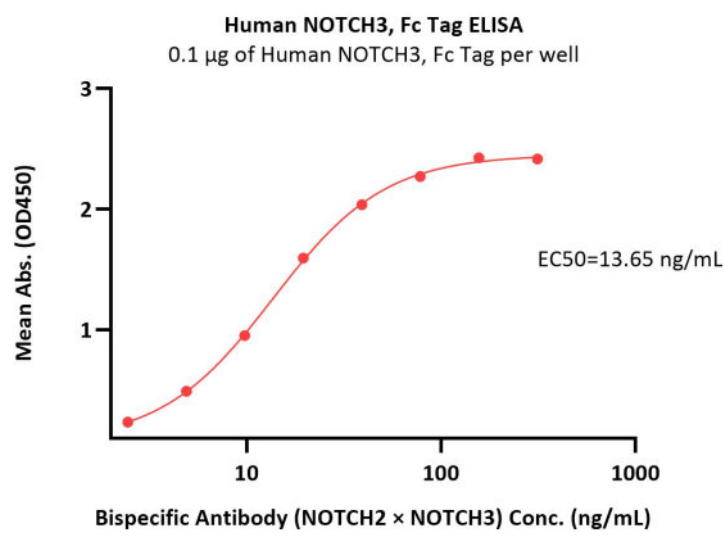
This product is stable after storage at:

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

**SDS-PAGE**

Human NOTCH3, 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%.

**Bioactivity-ELISA**



Immobilized Human NOTCH3, Fc Tag (Cat. No. NO3-H5255) at 1 µg/mL (100 µL/well) can bind Bispecific Antibody (NOTCH2 × NOTCH3) with a linear range of 2-20 ng/mL (QC tested).

## Background

Notch3 is one of four mammalian Notch proteins, which act as signalling receptors and involve in developmental patterning, cell fate decisions, regulation of cell survival and proliferation. Notch3 could interact with membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Via ligand activation, notch intracellular domain (NICD) is released and forms a transcriptional activator RBPJ/RBPSUH complex, which activates genes of the enhancer of split locus. Consequently, the activation of Notch3 can lead to the implementation of differentiation, proliferation and apoptotic programs

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.