

# Recombinant Mouse NOTCH1 Protein (Ala19-Gln526), C-mFc-tagged

## Product Information

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<b>Cat</b>	IMP-9829
<b>Official Symbol</b>	Notch1
<b>Product Overview</b>	Recombinant Mouse Notch-1 protein (Ala19-Gln526) with a Mouse IgG2A (Glu98-Lys330) Fc tag at C-terminus was expressed in Chinese Hamster Ovary cell line.
<b>Description</b>	<p>This gene encodes a member of the NOTCH family of proteins. Members of this Type I transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple different domain types. Notch signaling is an evolutionarily conserved intercellular signaling pathway that regulates interactions between physically adjacent cells through binding of Notch family receptors to their cognate ligands. The encoded preproprotein is proteolytically processed in the trans-Golgi network to generate two polypeptide chains that heterodimerize to form the mature cell-surface receptor. This receptor plays a role in the development of numerous cell and tissue types. Mutations in this gene are associated with aortic valve disease, Adams-Oliver syndrome, T-cell acute lymphoblastic leukemia, chronic lymphocytic leukemia, and head and neck squamous cell carcinoma.</p>
<b>Expression System</b>	CHO
<b>Species</b>	Mouse
<b>Tag</b>	C-mFc
<b>Predicted N Terminal</b>	Ala19
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS and EDTA.
<b>Molecular Mass</b>	Predicted Molecular Mass: 80.7 kDa (monomer) SDS-PAGE: 110-120 kDa, reducing conditions
<b>Protein length</b>	Ala19-Gln526
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse Notch-1 Fc Chimera at 2 µg/mL (100 µL/mL) can bind Recombinant Rat Jagged 1 Fc Chimera with an apparent KD < 2 nM.
<b>Endotoxin</b>	
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Notes**

*Disulfide-linked homodimer*

**Storage**

*Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.*

**Reconstitution**

*Reconstitute at 200 µg/mL in sterile PBS.*