

## Notch 3 Protein, Human, Recombinant (His)

### General Information

Synonyms: NOTCH3;CADASIL;Notch-3;Notch homolog 3

Protein Construction: Ala1378-Ser1640

Species: Human

Expression Host: HEK293 Cells

Accession: Q9UM47

Molecular Weight: 30.18 kDa (predicted). Due to furin-like protease cleavage and glycosylation, the protein migrates to 27-30 kDa and 10-12 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity: Immobilized Human Notch 3, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Anti-Notch 3 Antibody, hFc Tag with the EC50 of 14.2ng/ml determined by ELISA.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: < 1 EU/ $\mu$ g by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22  $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

In general, Lyophilized powders are shipping with blue ice.

### Protein Background

Human Notch-3 is part of the Notch family of type I transmembrane glycoproteins involved in a number of early-event developmental processes. The extracellular domain of Notch receptors interact with the extracellular domain of transmembrane ligands Jagged, Delta, and Serrate expressed on the surface of a neighboring cell. 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.

Reference

Wu Y, et al. Therapeutic antibody targeting of individual Notch receptors[J]. NATURE, 2010, 464(7291):1052-1057.

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