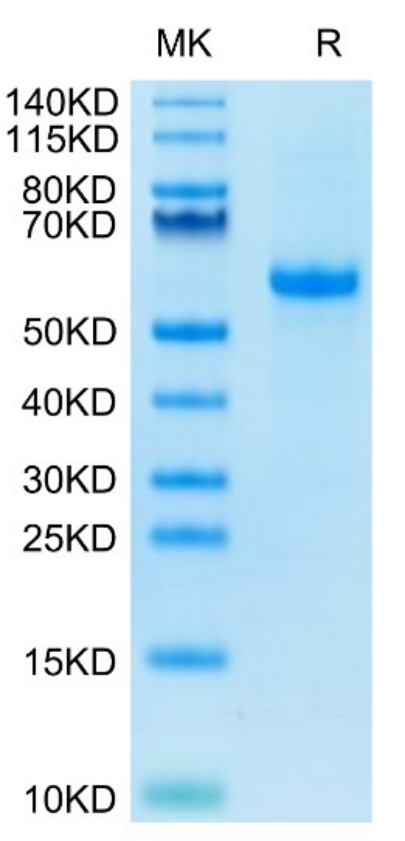
Bioactive HuPro®

# NOTCH3 (Human) Recombinant Protein (Biotin)

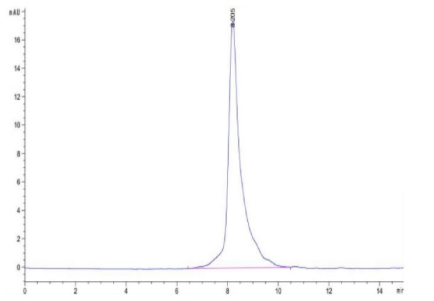
Catalog # P10477 Size 100 ug

## Applications




### Tris-Bis PAGE

Biotinylated Human NOTCH3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



### SEC-HPLC

The purity of Biotinylated Human NOTCH3 is greater than 95% as determined by SEC-HPLC.

## Specification

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|---|---|
| **Product Description** | Human NOTCH3 (Q9UM47, Ala40-Glu467) partial recombinant protein with His-Avi tag at the C-Ter minus expressed in HEK293 cells. |
| **Sequence** | Ala40-Glu467 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 47.7 |
| **Reactivity** | Human |
| **Form** | Lyophilized |
| **Conjugation** | Biotin |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purity** | > 95% by Tris-Bis PAGE<br>> 95% by HPLC |
| **Endotoxin Level** | < 0.1 EU per 1 ug as determined by the LAL method. |
| **Recommend Usage** | Biological Activity<br>Tris-Bis PAGE<br>SEC-HPLC<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from 0.22 um filtered solution in PBS, pH 7.4. (8% trehalose). |
| **Storage Instruction** | Store at -20°C for 12 months.<br>After reconstitution, store at 4°C for 2-7 days, or store at -80°C for 3-6 months.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Please use within one month after protein reconstitution. |

## Applications

- Functional Study

## Gene Info — NOTCH3

| | |
|---|---|
| **Entrez GeneID** | 4854 |
| **Protein Accession#** | Q9UM47 |
| **Gene Name** | NOTCH3 |

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| | |
|---|---|
| **Gene Alias** | CADASIL, CASIL |
| **Gene Description** | Notch homolog 3 (Drosophila) |
| **Omim ID** | 125310 600276 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes the third discovered human homologue of the Drosophilia melanogaster type I membrane protein notch. In Drosophilia, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). [provided by RefSeq |
| **Other Designations** | Notch homolog 3 |

## Pathway

- Dorso-ventral axis formation
- Notch signaling pathway

## Disease

- Brain Infarction
- Brain Ischemia
- CADASIL
- Cardiovascular Diseases
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chromosome Aberrations
- Cleft Lip
- Cleft Palate

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- Cognition Disorders
- Dementia
- Diabetes Mellitus
- Disease Progression
- Dominance
- Edema
- Genetic Predisposition to Disease
- Hypertension
- Ischemic Attack
- Mental Disorders
- Migraine Disorders
- Neuropsychological Tests
- Ovarian Neoplasms
- Periodontal Diseases
- Schizophrenia

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