

Notch 4 Protein, Human, Recombinant (His)

General Information

Synonyms:	INT3;notch 4
Protein Construction:	A DNA sequence encoding the human NOTCH4 (AAH63815.1) (Met1-Phe637) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Arg 24
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q6P3V5
Molecular Weight:	66.1 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM PB, 500 mM NaCl, pH 7.0, 10% glycerol. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NOTCH4 (Notch Receptor 4) is a Protein Coding gene. Notch4 belongs to a family of transmembrane receptors that play an important role in vascular development and maintenance. The NOTCH4 gene is located at 6p21.3 and is involved in the development and patterning of the central nervous systems. It regulates signaling pathways associated with neuronal maturation, a process involved in the development and patterning of the central nervous system. The NOTCH4 gene has also been identified as a possible susceptibility gene for schizophrenia (SCZ). It is

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broadly expressed in fat, lung, and other tissues. The NOTCH4 gene, located within the MHC region, is involved in cellular differentiation and has varying effects dependent on tissue type.

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