

Notch 2 Protein, Human, Recombinant (His)

General Information

Synonyms:	AGS2;HJCYS;hN2;notch 2
Protein Construction:	A DNA sequence encoding the human NOTCH2 (NP_001186930.1) (Met1-Gln530) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Leu 26
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q04721
Molecular Weight:	55.5 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:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM NaCl, 10% gly, pH 8.0. 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:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

NOTCH2 (Notch Receptor 2) is a Protein Coding gene. This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics and play a role in a variety of developmental processes by controlling cell fate decisions. Hajdu Cheney Syndrome (HCS) is a rare disease associated with mutations of NOTCH2 that lead to the translation of a truncated, presumably stable, NOTCH2 protein. NOTCH2 is down-regulated in colon cancer, and reduced expression is associated with a less

differentiated, more aggressive phenotype, and reduced overall survival. NOTCH2 has also been shown to have pro-apoptotic and growth-suppressive effects in thyroid carcinoma, and carcinoid tumors. NOTCH2 acts as an oncogene that promotes bladder cancer growth and metastasis through EMT, cell-cycle progression, and maintenance of stemness.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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