

Mouse Notch-1 / NOTCH1 Protein (His Tag)

Catalog Number: 50654-M08B



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

9930111A19Rik; lin-12; Mis6; N1; Tan1

Protein Construction:

A DNA sequence encoding the mouse NOTCH1 (NP_032740.3) N-terminal fragment (Met 1-Gln 526) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 82 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its binding ability in a functional ELISA.
2. Immobilized human DLL4 (cat: 10171-H02H) at 10 µg/mL (100 µl/well) can bind biotinylated mouse NOTCH1-his, The EC₅₀ of biotinylated mouse NOTCH1-his is 40 ng/mL.
3. Immobilized mouse DLL4-his (Cat:50640-M08H) at 10 µg/mL (100 µl/well) can bind biotinylated mouse NOTCH1-his, The EC₅₀ of biotinylated mouse NOTCH1-his is 30 ng/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 19

Molecular Mass:

The secreted recombinant mouse NOTCH1 (aa 1-526) consists of 518 amino acids and has a calculated molecular mass of 55 kDa. It migrates as an approximately 80 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

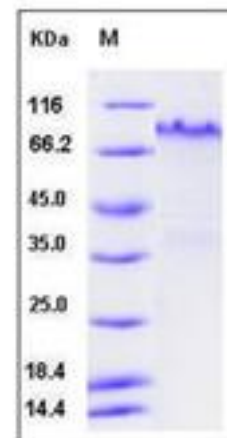
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

NOTCH1 is one of the four mammalian Notch receptors, which is involved in the Notch signaling pathway. Specifically, NOTCH1 promotes the proliferation of myogenic precursor cells, and the NICD domain of NOTCH1 can impair regeneration of skeletal muscles. NOTCH1 is a prevalent signaling pathway in T cell acute lymphoblastic leukemia (T-ALL). The NOTCH signaling pathway is a conserved signaling cascade that regulates many aspects of development and homeostasis in multiple organ systems. The proto-oncogene NOTCH1 is frequently mutated in around 1% of patients with chronic lymphocytic leukemia (CLL). NOTCH1 mutations in oral squamous cell carcinoma (OSCC) frequently occur near the ligand-binding region. These mutations change the domain structure of this protein and affect the ligand binding activity. When NOTCH1 is activated by ligand binding, NOTCH1 intracellular domain (NICD) is cleaved from the cell membrane.

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