DLL1 (soluble) (human), (recombinant)

Notch ligand

Notch signalling pathways play key roles in cell-fate determination and differentiation in many tissues during embryonic and postnatal development. Notch ligands are divided into two subclasses, the delta and the serrate family. Delta-like 1, 3, and 4 (DLL1, -3, -4), JAG1 and JAG2 with DSL (Delta, Serrate, Lag2) domain are typical Notch ligands, while DNER, F3/Contactin and NB-3 without DSL domain are atypical Notch ligands. Notch-ligand binding to NOTCH1, -2, -3, or -4 receptor induces the receptor proteolysis by metalloprotease and γ -secretase to release Notch intracellular domain (NICD).

Human sDLL-1 comprises the extracellular signaling domain of DLL1, a member of a structurally-related family of single-pass type I transmembrane proteins that serve as ligands for Notch receptors. It is expressed in the heart and pancreas, and to a lesser extent in various other tissues. DLL-1 functions to specifically activate the Notch-1 and Notch-2 receptors. The Notch signaling pathway regulates endothelial-cell differentiation, proliferation and apoptosis, and is essential for the development, maintenance and remodeling of the vascular system. DLL-1 suppresses differentiation of hematopoietic progenitor cells into the B-cell lineage while promoting differentiation to T-cell and NK cell precursors.

Citations: 2

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Ordering Information

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ALX-201-765-0025

25µg

Manuals, SDS & CofA

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Handling & Storage

Use/Stability The lyophilized protein is stable for at least 2 years from date of receipt at -20°C.

Reconstituted sDLL-1 is stable for at least 3 months when stored in working aliquots

with a carrier protein at -20°C.

Handling Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C.

Long Term Storage -20°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Activity Inhibits adipogenesis of mesenchymal stem cells.

Alternative Name Delta-like protein 1, Delta1

Biological Activity Determined by the dose dependent growth suppression of the human acute monocytic

leukemia cell line, THP-1. sDLL-1 inhibits the proliferation in THP-1 cells using a

concentration of 3-5 µg/ml.

Endotoxin Content < 0.1 ng per µg of sDLL-1.

Formulation Lyophilized from 1X PBS, pH 7.5.

GenBank ID 28514

MW ~57-60kDa

Purity ≥95% (SDS-PAGE and HPLC)

Reconstitution Centrifuge the vial prior to opening. Reconstitute in water at a concentration of 0.1 –

> 1mg/ml. Do not vortex. For long term storage, it is recommended to dilute further in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -

20°C to -80°C.

Source Produced in HEK 293 cells. Recombinant human sDLL-1 contains 522 amino-acid



ENZO LIFE SCIENCES Phone: 800.942.0430

residues. ENZO LIFE SCIENCES (ELS) AG usa@enzolifesciences.Q005448

eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg Phone: +32 3 466 0420 infobe@enzolifesciences.com

France Phone: +33 472 440 655 fr@enzolifesciences.com Germany Phone: +49 7621 5500 526 de@enzolifesciences.com

UK & Ireland Phone (UK customers): 0845 601 1488 Phone: +44 1392 825900 uk@enzolifesciences.com