

sDLL-1, Human CellExp™, Human Recombinant

CATALOG #:	7133-10	10 µg
	7133-50	50 µg
ALTERNATE NAMES:	Delta-like protein 1, Delta-1	
SOURCE:	HEK293 cells	
PURITY:	≥ 95% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	57-60 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 1X PBS, pH 7.5.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

Human sDLL-1 comprises the extracellular signaling domain of DLL-1, a member of a structurally-related family of single-pass type I trans-membrane 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. Recombinant human sDLL-1 is a 57.0-60.0 kDa glycoprotein containing 522 amino-acid residues.

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 3.0-5.0 µg/ml.

AMINO ACID SEQUENCE:

SGVFELKLQE FVNKKGLLGN RNCCRGGAGP PPCACRTFFR VCLKHYQASV
SPEPPCTYGS AVTPVLGVDS FSLPDGGGAD SAFSNPIRFP FGFTWPGTFS
LIIEALHTDS PDDLATENPE RLISRLATQR HLTVGEEWSQ DLHSSGRSDL
KYSYRFVCDE HYYGEGCSVF CRPRDDAFGH FTCGERGEKV CNPGWKGPYC
TEPICLPGCD EQHGFCDKPG ECKCRVGWQG RYCDECI RYP GCLHGTCQQP
WQCNCQEGWG GLFCNQDLNY CTHHKPCKNG ATCTNTGQGS YTCSCRPGYT
GATCELGIDE CDPSPCKNGG SCTDLENSYS CTCPPGFYK ICELSAMTCA
DGPCFNGGRC SDSPDGGYSC RCPVGYSGFN CEKKIDYCSS SPCSNGAKCV
DLGDAYLCRC QAGFSGRHCD DNVDDCASSP CANGGTCRDG VNDFSTCPP
GYTGRNCSAP VSRCEHAPCH NGATCHERGH RYVCECARGY GGPNCQFLLP
ELPPGPAVVD LTEKLEGQGG PF

RELATED PRODUCTS:

- sDLL-4, human recombinant (**Cat. No. 7134-10, -50**)
- Notch 1 Antibody (**Cat. No. 3881-100**)
- Notch 1 Blocking Peptide (**Cat. No. 3881BP-50**)

FOR RESEARCH USE ONLY! Not to be used in humans.