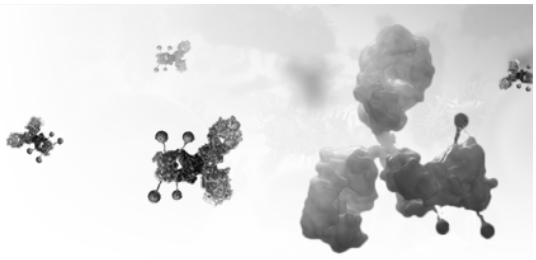

Chicken Netrin-1 (aa 26 - 606) [His] (DAG2596)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Chicken Netrin-1 antigen, was expressed in Mouse myeloma cell line, NS0. (Gly26 - Ala606) with an c-terminal 10-His tag (Accession # Q90922)
Antigen Description	Chicken Netrin-1 is the prototypical member of an ever-expanding, laminin-related family of axon-guidance molecules collectively referrred to as netrins (netr is Sanskrit for "one who guides"). The molecule's cDNA encodes a 606 amino acid (aa) protein precursor that has structural similarity to the N-terminus of the B2 or γ-chain of laminin. It contains one 250 aa type VI globular domain, three type V (~55 aa) cysteine/glycine rich EGF repeats, and one unique 140 aa "C" domain that binds heparin. Chick Netrin-1 shares 78% aa identity with chicken Netrin-2 and 86% aa identity with mouse and human Netrin-1. Although only two chick netrins are known, the number of known mammalian netrins is increasing. Human and mouse Netrin-3/NTN-2L, and a mouse Netrin-4, that shares homology with the B1 or β-chain of laminin, have been reported. Cells reported to express Netrin-1 in the embryo include cells of the spinal cord floor plate and somite, cells of the ganglionic eminence, and cells of the floor plate of the met- and caudal mesencephalon. In the adult, neurons of the thalamus, neocortex, and hippocampus, plus Schwann cells, osteoclasts and osteoblasts all reportedly produce Netrin-1. The DCC (deleted in colorectal cancer) gene product as well as the UNC5 family of receptors and the adenosine A2b receptor have been proposed to be functional receptors for Netrin-1.
Species	Chicken
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Conjugate	His
Format	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

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Introduction	Netrin-1 is a protein that in humans is encoded by the NTN1 gene. Netrin is included in a family of laminin-related secreted proteins. The function of this gene has not yet been defined; however, netrin is thought to be involved in axon guidance and cell migration during development. Mutations and loss of expression of netrin suggest that variation in netrin may be involved in cancer development.
Keywords	NTN1; netrin 1; netrin-1; NET1_HUMAN; Netrin 1, mouse, homolog of; Netrin 1-like; Netrin1; Ntn 1; NTN 1L; NTN1L; Unc6

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