



Chicken Netrin-2 (aa 16 - 581) [His] (DAG2593)

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

PRODUCT INFORMATION

Product Overview	Recombinant Chicken Netrin-2, His-tagged was expressed in Mouse myeloma cell line, NS0. Ala16-Pro581. with a C-terminal 6-His tag & Ala16-Pro581, with an N-terminal Met and C-terminal 6-His tag (Accession # Q90923)
Antigen Description	Netrins are laminin-like axon guidance molecules that are conserved among <i>C. elegans</i> , <i>Drosophila</i> , and vertebrates. The chicken Netrin-2 cDNA encodes a precursor protein that has structural similarity to the N-terminus of B2 or the γ -chain of laminin. The mature Netrin-2 protein has 581 amino acid (aa) which contains a 245 aa domain VI, a 169 aa domain V with three cysteine/glycine rich EGF repeats and a unique 152 aa domain C that enriches in basic aa residues and contains an RGD motif. Chicken Netrin-2 shares 72% aa identity with chicken Netrin-1, 51% aa identity with <i>C. elegans</i> UNC-6 protein and 57% aa identity with human NTN2L (Netrin-2-like). Although only two chicken netrins are known, the number of known mammalian netrins is growing. Mouse Netrin-3 and Netrin-4 were recently reported. Netrin-2 was expressed in the chick brain and spinal cord from E6 through to the adult. In addition, expression of Netrin-2 was observed at various stages in several mesodermally and endodermally derived tissues, including lung, gut, ovary, testes and spleen. Netrins act to both attract and repel the growing axons of a broad range of neuronal cell types during development. These actions are mediated by specific receptor complexes containing either the DCC (colorectal carcinoma) or neogenin, in the case of attractant, or UNC-5-related proteins, in the case of repellent.
Species	Chicken
Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Conjugate	His
Format	Lyophilized from a 0.2 μ m filtered solution in PBS and NaCl with BSA as a carrier protein.
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Netrins are a class of proteins involved in axon guidance. They are named after the Sanskrit word "netr", which means "one who guides." Netrins are genetically conserved across nematode worms, fruitflies, frogs, and mice. Structurally, netrin resembles the extracellular matrix protein laminin.
Keywords	NTN2; netrin 2; netrin-2; NET2_HUMAN; Netrin 2, mouse, homolog of; Netrin 2-like; Netrin2; Ntn 2; NTN 2L; NTN2L; Unc6