

NCAM2 Protein, Human, Recombinant (His)

General Information

Synonyms:	NCAM21;neural cell adhesion molecule 2
Protein Construction:	A DNA sequence encoding the human NCAM2 (NP_004531.2) (Met1-Asn697) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Leu 20
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O15394-1
Molecular Weight:	77.4 kDa (predicted); 90.1 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NCAM2 is a member of the immunoglobulin superfamily of cell adhesion molecules (IgCAMs). The neural cell adhesion molecule 2 (NCAM2) is encoded by a gene on chromosome 21 in humans. Neural cell adhesion molecules 2 (NCAM2/OCAM/RNCAM), is a paralog of NCAM1. The protein exists in transmembrane and a lipid-anchored isoform and has an ectodomain consisting of five immunoglobulin modules and two fibronectin type 3 homology modules. Structural models of the NCAM2 ectodomain reveal that it facilitates cell adhesion through

reciprocal interactions between the membrane-distal immunoglobulin modules. NCAM (Neural Cell Adhesion Molecule) proteins are involved in axonal migration, synaptic formation, and plasticity. Poor axonal growth and fasciculation are observed in animal models deficient for NCAM2.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481