

NRCAM Protein, Human, Recombinant (hFc)

General Information

Synonyms:	gCAM-related cell adhesion molecule;hBravo;Ng-CAM-related;Nr-CAM;KIAA0343;Neuronal surface protein Bravo;Neuronal cell adhesion molecule
Protein Construction:	Gln25-Asn600
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAI15737.1
Molecular Weight:	117 KDa (reducing condition)
AA Sequence:	Gln25-Asn600

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

Neuronal cell adhesion molecule(NRCAM) is a single-pass type I membrane protein ,containing 5 fibronectin type-III domains and 6 Ig-like C2-type (immunoglobulin-like) domains.It belongs to the immunoglobulin superfamily. NrCAM is engaged in such biological processes as axonal fasciculation, cell-cell adhesion, central nervous system development, clustering of voltage-gated sodium channels, neuron migration, positive regulation of neuron differentiation, regulation of axon extension, and synaptogenesis. It also may play a role in the molecular

assembly of the nodes of Ranvier. NrCAM effects are also linked with different recognition processes and signal transduction pathways regulating cell differentiation, proliferation, or migration

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