



Recombinant Protein Technical Manual

Recombinant Human Contactin 2/CNTN2 Protein (His Tag) RPES1005

Product Data:

Product SKU: RPES1005

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q02246

Protein Information:

Molecular Mass: 108.7 kDa

AP Molecular Mass: 11040 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Contactin-2; Axonal glycoprotein TAG; Axonin; Transient axonal glycoprotein 1; CNTN2; AXT; TAG1; TAX1

Immunogen Information:

Sequence: Ser31-Asn1012

Background:

Contactin-2 (CNTN2) is encoded by the CNTN2 gene, which belongs to the immunoglobulin superfamily and contactin family. It contains 4 fibronectin type-III domains and 6 Ig-like C2-type domains. It is a glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein that functions as a cell adhesion molecule. CNTN2 may play a role in the formation of axon connections in the developing nervous system. In conjunction with another transmembrane protein, CNTNAP2, contributes to the organization of axonal domains at nodes of Ranvier by maintaining voltage-gated potassium channels at the juxtaparanodal region. It may also be involved in glial tumorigenesis and may provide a potential target for therapeutic intervention.