

**Synonym**

CNTN2,AXT,DKFZp781D102,FLJ37193,FLJ42746,MGC157722,TAG-1,TAX,TAX1>Contactin-2

**Source**

Human Contactin-2, His Tag (CN2-H5226) is expressed from human 293 cells (HEK293). It contains AA Ser 31 - Asn 1012 (Accession # NP\_005067.1).

Predicted N-terminus: Ser 31

**Molecular Characterization**

Contactin-2(Ser 31 - Asn 1012) NP_005067.1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 108.3 kDa. The protein migrates as 116-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

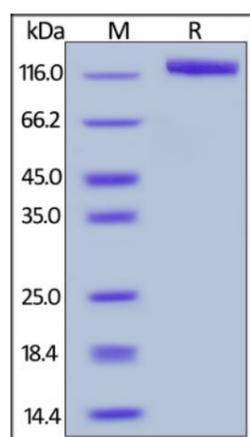
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Contactin-2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Background**

Contactin-2 is also known as CNTN2, TAX1 (transiently-expressed axonal glycoprotein), TAG1 (transient axonal glycoprotein), and axonin-1, and is a member of the immunoglobulin superfamily. CNTN2 consists of six Ig-like domains and four fibronectin type III domains, and is anchored to the membrane by glycosylphosphatidylinositol (GPI), whereas the soluble form can be released by a GPI-specific phospholipase. As a neural cell adhesion molecule expressed by a subset of neuronal populations in the developing CNS and PNS, CNTN2 mediates cell-cell interactions either via homophilic, or heterophilic contacts with various adhesion molecules including NgCAM, NrCAM, NCAM and neurocan. It is a glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein that

functions as a cell adhesion molecule. It may play a role in the formation of axon connections in the developing nervous system. It may also be involved in glial tumorigenesis and may provide a potential target for therapeutic intervention.

### References

- (1) [Tsiotra PC, et al., 1993, Genomics 18 \(3\): 562-7.](#)
- (2) [Traka, M. et al., 2003, J. Cell. Biol. 162: 1161-1172.](#)
- (3) [Mörthl M, ET AL., 2007, Protein Sci.16\(10\):2174-83.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.