

Recombinant Human CNTNAP1 protein, His & T7-tagged

Cat. No. CNTNAP1-5753H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CNTNAP1 aa. (Pro926~Glu1190 (Accession # P78357)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro926~Glu1190
Description	The gene product was initially identified as a 190-kD protein associated with the contactin-PTPRZ1 complex. The 1,384-amino acid protein, also designated p190 or CASPR for 'contactin-associated protein,' includes an extracellular domain with several putative protein-protein interaction domains, a putative transmembrane domain, and a 74-amino acid cytoplasmic domain. Northern blot analysis showed that the gene is transcribed predominantly in brain as a transcript of 6.2 kb, with weak expression in several other tissues tested. The architecture of its extracellular domain is similar to that of neuexins, and this protein may be the signaling subunit of contactin, enabling recruitment and activation of intracellular signaling pathways in neurons.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.5kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Purity	>95%
Characteristic	The isoelectric point is 7.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CNTNAP1 contactin associated protein 1 [Homo sapiens (human)]
Official Symbol	CNTNAP1
Synonyms	CNTNAP1; contactin associated protein 1; P190; CASPR; NRXN4; CNTNAP; contactin-associated protein 1; caspr1; neurexin IV; neurexin-4
Gene ID	8506
mRNA Refseq	NM_003632.2

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Protein Refseq	NP_003623.1
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UniProt ID	P78357
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