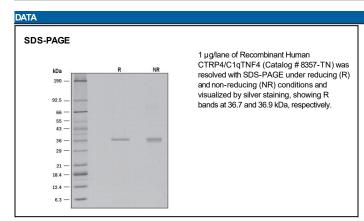


Recombinant Human CTRP4/C1qTNF4

Catalog Number: 8357-TN

DESCRIPTION	
Source	Mouse myeloma cell line, NS0-derived Leu17-Leu329, with a C-terminal 6-His tag Accession # Q9BXJ3
N-terminal Sequence Analysis	Leu17
Predicted Molecular Mass	34 kDa
SPECIFICATIONS	
SDS-PAGE	34-39 kDa, reducing conditions
Activity	Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. Recombinant Human CTRP4/C1qTNF4, immobilized at 1.25-2.5 μg/mL on a 96-well plate, is able to significantly enhance neurite outgrowth.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in HEPES and NaCl. See Certificate of Analysis for details.

PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 250 μg/mL in PBS.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.
	 3 months, -20 to -70 °C under sterile conditions after reconstitution.



BACKGROUND

C1qTNF4, also known as CTRP4, is an approximately 34 kDa member of the C1q family of secreted proteins (1, 2). C1qTNF4 consists of a signal peptide followed by two tandem globular C1q domains (1). It is the only C1q family member with tandem C1q domains (1, 2). The second C1q domain contains an RGD peptide, suggesting that it could potentially interact with integrins (3). Mature human C1qTNF4 shares 95% and 94% amino acid sequence identity with mouse and rat C1qTNF4, respectively. Expression of human C1qTNF4 occurs most abundantly in brain and adipose tissue (1). Like other CTRP family members, C1qTNF4 can form dimers, trimers, hexamers, and high molecular weight oligomers following secretion (1, 4). Injection of recombinant C1qTNF4 into mice can reduce food intake, body weight, and ambulatory activity levels (1). C1qTNF4 has also been shown to promote human cancer cell survival *in vitro* (5).

References:

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- 4. Wong, G.W. et al. (2008) Biochem. J. 416:161.
- 5. Li, Q. et al. (2011) Cancer Lett. 308:203.

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