

Recombinant Human C1qTNF3

Catalog No: #GP12393



Package Size: #GP12393-1 100ug

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Description

Product Name	Recombinant Human C1qTNF3
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 190-319 amino acids of human C1qTNF3
Target Name	C1q and tumor necrosis factor related protein 3
Other Names	CORS; CORCS; CTRP3; CORS26; C1ATNF3; CORS-26
Accession No.	Swissprot:Q9BXJ4 Gene Accession:BC120990
Uniprot	Q9BXJ4
GeneID	114899;
Storage	-20~-80°C, pH 7.6 PBS

Background

C1qTNF3 (Complement C1q TNF-related protein 3/CTRP3; also CORS26 and cartonectin) is a 30-32 kDa, secreted member of the C1q and TNF-related protein (CTRP) superfamily of molecules. It is expressed by a wide variety of cells, including smooth muscle cells, fibroblasts, adipocytes, monocytes and proliferating chondrocytes. C1qTNF3 is an anti-inflammatory agent that apparently blocks LPS activation of mononuclear cells. It also has marked proliferative activity on diverse cell types such as vascular smooth muscle, chondrocytes, and endothelium. Finally, C1qTNF3 is known to act on hepatocytes and suppress hepatocyte gluconeogenesis. Mature human C1qTNF3 is 224 amino acids (aa) in length (aa 23-246). It possesses an N-terminal collagen-like domain (aa 51-113) followed by a C-terminal globular region (aa 113-246). C1qTNF3 is monomeric when intracellular, but forms a 90 kDa homotrimer plus higher-order oligomer when secreted. There are at least two potential isoform variants. One is 40-42 kDa, glycosylated, and contains a 73 aa insertion after Glu28, while a second shows concurrent deletions of aa 46-69 and 82-105. The longer 40 kDa isoform is reported to form heterotrimers and oligomers with the standard 30 kDa isoform. This has the effect of protecting the standard isoform from proteolysis. Over aa 24-246, human C1qTNF3 shares 99% aa sequence identity with mouse C1qTNF3.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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