

Recombinant Human C1QT4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50099

Size: 10ug, 100ug

Protein Name: Complement C1q tumor necrosis factor-related protein 4 (C1q/TNF-related protein 4)

Synonym: C1QTNF4, CTRP4

UniProt ID: Q9BXJ3

UniProt Link: www.uniprot.org/uniprotkb/Q9BXJ3/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 329 AA

Molecular Weight: 35 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLPLLLGLLGPAACWALGPTPGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNIGGDFDVATG
QFRCRVPGAYFFSFTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDT
VWLRLHGAPQYALGAPGATFSGYLVYADADADAPARGPPAPPEPRSAFSAARTRSLVGSDAGPGP
RHQPLAFDTEFVNIGGDFDAAAGVFRCLPGAYFFSFTLGKLPRKTL SVKLMKNRDEVQAMIYDDGA
SRRREMQSQSVMLALRRGDAVWLLSHDHDGYGAYSNHGKYITFSGFLVYPLAPAAPPGLGASELL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Complement C1q tumor necrosis factor-related protein 4 (C1q/TNF-related protein 4) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: May be involved in the regulation of the inflammatory network. Its role as pro- or anti-inflammatory seems to be context dependent (PubMed:21658842, PubMed:27086950). Seems to have some role in regulating food intake and energy balance when administered in the brain. This effect is sustained over a two-day period, and it is accompanied by decreased expression of orexigenic neuropeptides in the hypothalamus 3 hours post-injection (By similarity).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.