# Recombinant C1QL4 protein (His tag)

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| **Catalog Number** | 547663 |
| **Synonyms** | C1q and tumor necrosis factor-related protein 11; C1q/TNF-related protein 11 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q86Z23 |
| **Molecular Weight** | Predictes a molecular mass of 20.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band. |

## Product Information

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| **Sequence Region** | 59-238 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 59-238 aa (Q86Z23) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Complement C1q-like protein 4 (C1QL4) Fragment (aa 59-238) is a high-purity protein designed for neuroscience and metabolic research. This fragment fully encompasses the C1q functional domain, making it an ideal tool for studying synapse regulation and adipocyte differentiation mechanisms.<br>Complement C1q-like protein 4 (C1QL4) is a secreted protein that plays crucial roles in neuronal development and metabolic processes. According to available research, it regulates the formation of excitatory synapses on hippocampus neurons while showing no effect on inhibitory synapses. Additionally, C1QL4 appears to inhibit adipocyte differentiation during early stages of the process. As a secreted protein, it functions in extracellular environments, making this recombinant fragment particularly valuable for studying its domain-specific interactions and signaling pathways in both neurological and metabolic research contexts. |