

**Thymus Chemokine-1/CXCL7**  
Catalog # PVGS1468**Specification**

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**Thymus Chemokine-1/CXCL7 - Product Information**

Primary Accession [Q99ME0](#)  
Species  
Rat

Sequence  
Ile46-Ile107

Purity  
> 97% as analyzed by SDS-PAGE  
> 97% as analyzed by HPLC

Endotoxin Level  
< 0.2 EU/ µg of protein by gel clotting method

Biological Activity  
The EC<sub>50</sub> value of rat Thymus Chemokine-1/CXCL7 on Ca<sup>2+</sup> mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 300.0 ng/ml.

Expression System  
CHO

Formulation **Lyophilized after extensive dialysis against PBS.**

Reconstitution  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

Storage & Stability  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**Thymus Chemokine-1/CXCL7 - Additional Information**

Target Background  
Thymus Chemokine-1, also called Chemokine (C-X-C motif) ligand 7 (CXCL7), is a member of the CXC chemokines. Similar to other ELR domain containing CXC chemokines such as IL-8 and the GRO proteins, Thymus Chemokine-1 has been shown to bind CXCR-2 and be a chemoattractant for neutrophils and play a role in their activation. Although CTAP-III, β-TG and PBP represent amino-terminal extended variants of Thymus Chemokine-1 and possess the same CXC chemokine domains, these proteins do not exhibit Thymus Chemokine-1 activity. Recently, it has been shown that the additional amino-terminal residues of CTAP-III mask the critical ELR receptor binding domain that is exposed on Thymus Chemokine-1 and may account for lack of Thymus

Chemokine-1 activity. Rat CXCL7 shares 72% amino acid sequence identity with mouse CXCL7.

### **Thymus Chemokine-1/CXCL7 - Protein Information**

### **Thymus Chemokine-1/CXCL7 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Thymus Chemokine-1/CXCL7 - Images**