

# Thymus Chemokine $\chi$ 1/CXCL7

Catalog # PVGS1468

## Product Information

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<b>Primary Accession Species</b>	<a href="#">Q99ME0</a> Rat
<b>Sequence</b>	Ile46-Ile107
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level</b>	
<b>Biological Activity</b>	The EC <sub>50</sub> value of rat Thymus Chemokine $\chi$ 1/CXCL7 on Ca <sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/rCXCR2 cells (human G $\alpha$ 15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 300.0 ng/ml.
<b>Expression System</b>	CHO
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	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 $\mu$ g/ml.
<b>Storage &amp; Stability</b>	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.

## Additional Information

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<b>Target Background</b>	Thymus Chemokine $\chi$ 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 $\chi$ 1 has been shown to bind CXCR-2 and be a chemoattractant for neutrophils and play a role in their activation. Although CTAP-III, $\beta$ -TG and PBP represent amino-terminal extended variants of Thymus Chemokine $\chi$ 1 and possess the same CXC chemokine domains, these proteins do not exhibit Thymus Chemokine $\chi$ 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 $\chi$ 1 and may account for lack of Thymus Chemokine $\chi$ 1 activity. Rat CXCL7 shares 72% amino acid sequence identity with mouse CXCL7.
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## Protein Information

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.