

Bioworld Technology,Inc.

Recombinant Thymus Chemokine-1/CXCL7, Rat

Catalog Number: BK0286-1mg

Source: CHO

Quantity: 1mg

Description:

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 forneutrophils 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.Recombinant rat Thymus Chemokine-1/ CXCL7 produced in CHO cells is a polypeptide chain containing 62 amino acids. A fully biologically active molecule, rrThymus Chemokine-1/CXCL7 has a molecular mass of 9.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

9.8 kDa, observed by reducing SDS-PAGE.

Purity:

> 97% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

The EC50 value of rat Thymus Chemokine-1/CXCL7 on Ca²+ mobilization assay in CHO-K1/G α 15/rCXCR2 cells (human G α 15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 300 ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

IELRCRCTNTLSGIPLNSISRVNVFRPGAHCDN-VEVIATLKNGKEVCLDPTAPMIKKIVKKI

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Rat Thymus Chemokine - 1/CXCL7 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Rat Thymus Chemokine - 1/CXCL7 should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

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