

Overview

Synonyms	Thymus Chemokine-1, TCK-1
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 for neutrophils and play a role in their activation. Although CTAP-III, ² -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, rThymus Chemokine-1/CXCL7 has a molecular mass of 9.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	Q99ME0
Species	Rat
Source	CHO
Biological Activity	The EC ₅₀ value of rat Thymus Chemokine-1/CXCL7 on Ca ²⁺ mobilization assay in CHO-K1/G \pm 15/rCXCR2 cells (human G \pm 15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 300 ng/ml.
Sequence	IELRCRCTNT LSGIPLNSIS RVNVFRPGAH CDNVEVIATL KNGKEVCLDP TAPMIKKIVK KI

Properties

Measured Molecular Weight	9.8 kDa, observed by reducing SDS-PAGE.
Purity	> 97% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant Rat Thymus Chemokine-1/CXCL7 remains stable up to 6 months at lower than -70°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.
Note	For research use only

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