

Active Recombinant Rat Ppbp Protein (62 aa)

Cat. No. Pbp-204P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Rat
Source	CHO
ProteinLength	62
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, 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	The EC50 value of rat Thymus Chemokine-1/CXCL7 on Ca ²⁺ mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 300 ng/mL.
Molecular Mass	9.8 kDa, observed by reducing SDS-PAGE.
AA Sequence	IELRCRCTNTLSGIPLNSISRVNVFRPGAHCNDNEVIATLKNNGKEVCLDPTAPMIKKIV KKI
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 97% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Rat Thymus Chemokine-1/CXCL7 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat Thymus Chemokine-1/CXCL7 should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Ppbp pro-platelet basic protein [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Ppbp
Synonyms	Ppbp; pro-platelet basic protein; Cxcl7; Nap-2; platelet basic protein; chemokine (C-X-C motif) ligand 7; neutrophil activating peptide-2

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Gene ID	246358
mRNA Refseq	NM_153721
Protein Refseq	NP_714943
UniProt ID	Q99ME0

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA