

Recombinant Rat Neutrophil Activating Peptide 2/CXCL7

Information

Gene ID	
Accession #	
Alternate Names	CXC Chemokine RTCK1, Chemokine (C-X-C Motif) Ligand 7, Isoform CRA_b, Protein Ppbp.
Source	Escherichia coli.
M.Wt	Approximately 6.8 kDa, a single non-glycosylated polypeptide chain containing 62 amino acids.
AA Sequence	IELRCRCTNT LSGIPLNSIS RVNVFRPGAH CDNVEVIATL KNGKEVCLDP TAPMIKKIVK KI
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 0.1-1.0 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Rat Neutrophil Activating Peptide 2/CXCL7	10µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rRtNAP-2/CXCL7 as determined by LAL method.

Description

CXCL7 is a small cytokine which is also an isoform of Beta-Thromboglobulin or Pro-Platelet basic protein belonging to the CXC chemokine family and it is released in large amounts from platelets following their activation. CXCL7 stimulates DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by human synovial cells. Recombinant Rat CXCL7 contains 62 amino acids which is a single non-glycosylated polypeptide chain. In addition, The rat CXCL7 shares 58 % and 77 % a.a. sequence identity with human and mouse CXCL7.

Reference

1. Hristov M, Zernecke A, Bidzhekov K, et al. 2007. Circ Res. 100:590-7
2. Majumdar S, Gonder D, Koutsis B, et al. 1991. J Biol Chem. 266:5785-9
3. Krijgsveld J, Zaat SA, Meeldijk J, et al. 2000. J Biol Chem. 275:20374-81
4. Piccardoni P, Evangelista V, Piccoli A, et al. 1996. Thromb Haemost. 76:780-5.

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