

Recombinant Rat Neutrophil Activating Peptide 2/CXCL7 (Rat NAP-2/CXCL7)

Product Information

Product Name	Cat#	Size
Recombinant Rat Neutrophil Activating Peptide 2/CXCL7 (Rat NAP-2/CXCL7)	90939ES10	10 µg
	90939ES60	100 µg
	90939ES76	500 µg

Product 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. The rat CXCL7 shares 58 % and 77 % a.a. sequence identity with human and mouse CXCL7. 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.

Product Properties

Synonyms	CXC Chemokine RTCK1, Chemokine (C-X-C Motif) Ligand 7, Isoform CRA_b, Thymus Chemokine-1, Protein Ppbp
Accession	Q99ME0
UniGene	Rn.67082
Source	E.coli-derived rat NAP-2/CXCL7 protein, Ile46-Ile107.
Molecular Weight	Approximately 6.8 kDa.
AA Sequence	IELRCRCTNT LSGIPLNSIS RVNVFRPGAH CDNVEVIATL KNGKEVCLDP TAPMIKKIVK KI
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biologically active determined by a chemotaxis bioassay using human CXCR2 transfected mouse BaF3 cells is in a concentration range of 0.1-1.0 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!