HB220225

Recombinant Human Neutrophil Activating Protein-2/CXCL7 (Human NAP-2/CXCL7)

Product Information

Product Name	Cat#	Size
Recombinant Human Neutrophil Activating Protein-2/CXCL7 (Human NAP-2/CXCL7)	90910ES10	10 μg
	90910ES60	100 μg
	90910ES76	500 μg

Product Description

Neutrophil Activating Peptide 2 (NAP-2), also known as Chemokine (C-X-C motif) ligand 7 (CXCL7) and Pro-platelet basic protein (PPBP), is a member of the CXC chemokines. NAP-2 is found in the alpha-granules of human platelets. Nap-2 / PPBP / CXCL7 is released in large amounts from platelets following their activation. Similar to other ELR domain containing CXC chemokines such as IL-8 and the GRO proteins, NAP-2 has been shown to bind CXCR2 and to chemoattract and activate neutrophils. Nap-2 / PPBP / CXCL7 has been shown to stimulate various cellular processes including 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 synovial cells. Nap-2 is a ligand for CXCR1 and CXCR2, and Nap-2, Nap-2 (73), Nap-2 (74), Nap-2 (1-66), and most potent Nap-2 (1-63).

Product Properties

Synonyms	CXCL7, LDGF, MDGF, Small-inducible cytokine B7
Accession	P02775
GeneID	5473
Source	E.coli-derived Human NAP-2/CXCL7, Ala59-Asp128.
Molecular Weight	Approximately 7.6 kDa.
AA Sequence	AELRCMCIKT TSGIHPKNIQ SLEVIGKGTH CNQVEVIATL KDGRKICLDP DAPRIKKIVQ KKLAGDESAD
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration range of 1.0-10.0 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 20 mM PB, pH 7.4, 50 mM NaCl.
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℃. 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℃ to -80℃ 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.