Datasheet

Cat. No. P1212

Recombinant Human NAP-2/CXCL7

Information

Gene ID	5473
Accession #	P02775
Alternate Names	CXCL7, LDGF, MDGF, Small-inducible cytokine B7
Source	*Escherichia coli.*
M.Wt	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
AA Sequence	AELRCMCIKT TSGIHPKNIQ SLEVIGKGTH CNQVEVIATL KDGRKICLDP DAPRIKKIVQ KKLAGDESAD
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 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°C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. 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.
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	10 μg	100 μg	500 μg
Recombinant Human NAP-2/CXCL7	10 μg	100 μg	500 μg

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Quality Control

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

Description

Neutrophil activating protein-2 also named CXCL7 is an isoform of Beta-Thromboglobulin or Pro-Platelet basic protein. It belongs to the CXC chemokine family and 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 human CXCL7 contains 70 amino acids which is a single non-glycosylated polypeptide chain. In addition, The human CXCL7 shares 53 % and 58 % a.a. sequence identity with mouse and rat 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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