

Recombinant Human Neutrophil Activating Protein-2/CXCL7

#R00362

Size: 10 µg/100 µg/500 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

AELRCMCIKTTSGIHPKNIQSLEVIGKGTHCNQVEVIA
TLKDGRKICLDPDAPRIKKIVQKKLAGDESAD

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.

Product Specification

Synonyms	CXCL7, LDGF, MDGF, Small-inducible cytokine B7
Accession	P02775
GeneID	5473
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
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.

Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Endotoxin	Less than 1 EU/µg of rHuNAP-2/CXCL7 as determined by LAL method.