Animal-Free NAP-2/CXCL7 Protein, Human (His)

Cat. No.:	HY-P700049AF
Synonyms:	NAP-2/CXCL7; C-X-C motif chemokine 7; Platelet basic protein; MDGF; SCYB7
Species:	Human
Source:	E. coli
Accession:	P02775 (A59-D128)
Gene ID:	5473
Molecular Weight:	Approximately 8.43 kDa

PROPERTIES

AA Sequence	A E L R C M C I K T T S G I H P K N I Q S L E V I G K G T H C N Q V E V I A T L K D G R K I C L D P D A P R I K K I V Q K K L A G D E S A D
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED_{50} for this effect is <0.5 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	NAP-2/CXCL7 Protein, also known as LA-PF4, exerts a range of biological activities including stimulating DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and the synthesis of hyaluronic acid and sulfated glycosaminoglycan. It plays a role in promoting the formation and secretion of plasminogen activator by human synovial cells. As a ligand for CXCR1 and CXCR2, NAP-2, along with its variants, such as NAP-2(73), NAP-2(74), NAP-2(1-66), and the potent NAP-2(1-63), acts as chemoattractants and activators for neutrophils. Antibacterial proteins TC-1 and TC-2 are released in vitro from activated platelet alpha-granules. Additionally, CTAP-III(1-81) exhibits higher potency than CTAP-III in desensitizing chemokine-induced neutrophil activation, while beta-thromboglobulin functions as a homotetramer.

Caution: Product has not been fully validated for medical applications. For research use only.

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