

NAP-2 Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10242002	(2 µg)
Species: Human	RBG10242010	(10 µg)
Other names: Neutrophil Activating Protein-2, CXCL7, PBP (parent molecule), CTAP-III (precursor)	RBG10242100	(100 µg)

Description

NAP-2 is a CXC chemokine that can signal through the CXCR1 and CXCR2 receptors. It is produced in leukocytes by enzymatic processing of a precursor called platelet basic protein (PBP). NAP-2 chemoattracts and activates neutrophils. Recombinant Human NAP-2 protein is a 7.6 kDa protein containing 70 amino acid residues, including the four highly conserved cysteine residues present in CXC chemokines, and also the "ELR" motif, common to CXC chemokines that bind to CXCR1 and CXCR2.

Research topic

Chemokines, Cytokines and chemokines and related molecules

Amino Acid Sequence

AELRCMCIKT TSGIHPKNIQ SLEVIGKGTH CNQVEVIATL KDGRKICLDP DAPRIKKIVQ KKLAGEDESAD

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to chemoattract human neutrophils using a concentration range of 1.0-10.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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