

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

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	201-07
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	AELRCMCIKT TSGIHPKNIQ SLEVIGKGTH CNQVEVIATL KDGRKICLDP DAPRIKKIVQ KKLAGDESAD
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 Appearance:	Sterile Filtered White lyophilized (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.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Neutrophil Activating Protein-2/CXCL7

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.