Recombinant Protein Technical Manual

Recombinant Human CXCL7/NAP-2 Protein (His Tag)

RPES1426

Product Data:

Product SKU: RPES1426

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P02775

Protein Information:

Molecular Mass: 11.3 kDa

AP Molecular Mass: 126 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mMHAc-Nac,150mM NaCl, pH 4.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Platelet Basic Protein; PBP; C-X-C Motif Chemokine 7; Leukocyte-Derived Growth Factor; LDGF; Macrophage-Derived Growth Factor; MDGFSmall-Inducible Cytokine B7; PPBP; CTAP3; CXCL7; SCYB7; TGB1; THBGB1

Immunogen Information:

Sequence: Ser35-Asp128

Background:

Human Chemokine (C-X-C motif) Ligand 7 (CXCL7), also known as neutrophil activating peptide 2 (NAP-2), is a member of the CXC chemokines containing an ELR domain (Glu-Leu-Arg tripeptide motif). Similar to other ELR domain containing CXC chemokines, such as IL-8 and the GRO proteins, CXCL7 binds CXCR2, chemoattracts and activates neutrophils. CXCL7, Connective Tissue Activating Protein III (CTAPIII) and βthrombogulin (βTG), are proteolytically processed carboxylterminal fragments of platelet basic protein (PBP) which is found in the alphagranules of human platelets. Although CTAPIII, βTG, and PBP represent amino-terminal extended variants of NAP2 and possess the same CXC chemokine domains, these proteins do not exhibit CXCL7/NAP2 activity. CXCL7 induces cell migration through the G-protein-linked receptor CXCR-2.