

NAP-2/CXCL7, Human(CHO-expressed)

Cat. No.: Z03247-1

Size: 1.0 mg

Synonyms: NAP-2/CXCL7, Human

Description:

Chemokine (C-X-C motif) ligand(CXCL7) is a small cytokine belonging to the CXC chemokine family. It is an isoform of Beta-Thromboglobulin or Pro-Platelet basic protein (PPBP). CXCL7 can signal through the CXCR1 and CXCR2 receptors. It is a protein that is released in large amounts from platelets following their activation. It stimulates various processes including mitogenesis, synthesis of extracellular matrix, glucose metabolism and synthesis of plasminogen activator.

Recombinant human NAP-2/CXCL7 produced in CHO cells is a single polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhNAP-2/CXCL7 has a molecular mass of 9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 AELRCMCIKT TSGIHPKNIQ SLEVIGKGTH CNQVEVIATL
00041 KDRKICLDP DAPRIKKIVQ KKLAGDESAD

Source: CHO

Species: Human

Biological Activity: The EC₅₀ value of human NAP-2/CXCL7 on Ca²⁺ mobilization assay in CHO-K1/Ga15/hCXCR1 cells (human Ga15 and human CXCR1 stably expressed in CHO-K1 cells) is less than 0.1 µg/ml.

Molecular Weight: 9 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 98% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human NAP-2/CXCL7 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human NAP-2/CXCL7 should be stable up to 1 week at 4°C or up to 2 months at -20°C.