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Product Datasheet

Human CXCL1 / GRO alpha protein, His and GST tag (active), Unconjugated GTX00215-PRO

Article Name	Human CXCL1 / GRO alpha protein, His and GST tag (active), Unconjugated
Biozol Catalog Number	GTX00215-PRO
Supplier Catalog Number	GTX00215-pro
Alternative Catalog Number	GTX00215-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	2919
UniProt	P09341
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His and GST-Tag, Ala35~Asn107 (NP_001502.1)

Application Notes

Neutrophil-activating protein 3 (NAP3) also known as chemokine (C-X-C motif) ligand 1 (CXCL1) is a small cytokine belonging to the CXC chemokine family. NAP3 is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of NAP3 on the human monocytic cell line THP-1. Briefly, THP-1 cells were seeded into the upper chambers (100 µl cell suspension, 1x10⁶ cells/ml in RPMI-1640 with FBS free) and SLC (31.25 ng/ml, 62.5 ng/ml, 125 ng/ml and 250 ng/ml diluted separately in serum free RPMI-1640) was added in lower chamber with a polycarbonate filter (8µm pore size) used to separate the two compartments. After incubation at 37°C with 5% CO₂ for 1h, the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification (*100) and the number of migrated cells were counted at high magnification (*400) randomly. And NAP3 is able to induce migration of THP-1 cells.