Recombinant Human CXCL1

Cat No:HR2R1299

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CXCL1
Gene ID	2919
Accession	P09341
Alternative Name	Growth Regulated Protein, Melanoma Growth Stimulatory Activity, GRO-alpha, MGSA-alpha, CXCL1, NAP-3, GRO1, C-X-C motif chemokine 1, GRO-alpha(1-73) Recombinant Human Growth Regulated Alpha Protein (CXCL1)
Species	Human
Source	E. coli
Description	A chemokine, the growth regulated oncogene-alpha is identical with MGSA (melanoma growth stimulatory activity) with its new designation being CXCL1. The expression of GRO can be induced by serum or PDGF and/or by a variety of inflammatory mediators, such as IL-1 and TNF, in monocytes, fibroblasts, melanocytes and epithelial cells. In certain tumor cell lines, GRO is expressed constitutively. Similar to other alpha chemokines, the three GRO proteins are potent neutrophil attractants and activators. In addition, these chemokines are also active toward basophils. All three GROs can bind with high affinity to the IL-8 receptor type B.
Functions	Determined by the ability to chemoattract human neutrophils using a concentration range of 10.0-50.0 ng/mL.
Formulation	Lyophilized from a 0.2 ?m filtered solution in 40 mM NaCl and PB, pH 7.0
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	8
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.