HB220331

Recombinant Human Growth Regulated Protein-gamma/CXCL3 (Human GRO-γ/CXCL3)

Product Information

Product Name	Cat#	Size
Recombinant Human Growth Regulated Protein-gamma/CXCL3 (Human GRO-γ/CXCL3)	90906ES10	10 μg
	90906ES60	100 μg
	90906ES76	500 μg

Product Description

Human GRO alpha, GRO beta (MIP-2 alpha), and GRO gamma (MIP-2 beta) are products of three distinct, non-allelic human genes. GRO beta and GRO gamma share 90% and 86% amino acid sequence homology, respectively, with GRO alpha. All three human GROs are members of the alpha (C-X-C) subfamily of chemokines and are thought to be the homologs of murine KC and MIP-2.

The three GRO cDNAs encode 107 amino acid precursor proteins from which the N-terminal 34 amino acid residues are cleaved to generate the mature GROs. There are no potential N-linked glycosylation sites in the amino acid sequences. GRO expression is inducible 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.

Product Properties

Synonyms	GRO-gamma, MIP2-beta
Accession	P19876
GeneID	2921
Source	E.coli-derived HumanGRO-γ,Ala35-Asn107.
Molecular Weight	Approximately 7.9 kDa
AA Sequence	ASVVTELRCQ CLQTLQGIHL KNIQSVNVRS PGPHCAQTEV IATLKNGKKA CLNPASPMVQ KIIEKILNKG STN
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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 CXCR2 transfected human 293 cells is in a concentration range of 10-100 ng/mL.
Endotoxin	< 1.0 EU per 1μg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
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 and Storage

The products are shipped with ice pack and can be stored at -20℃ to -80℃ for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycle.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.