

Recombinant Mouse Macrophage Inflammatory Protein-2/CXCL2 (Mouse MIP-2/CXCL2)

Product Information

Product Name	Cat#	Size
Recombinant Mouse Macrophage Inflammatory Protein-2/CXCL2 (Mouse MIP-2/CXCL2)	90922ES08	5 µg
	90922ES60	100 µg
	90922ES76	500 µg

Product Description

CXCL2, also named MIP-2, is belonging to the CXC chemokine family. The protein sequence of mouse CXCL2 shows approximately 63% identity to that of mouse KC, another mouse alpha chemokine whose expression is induced by PDGF. The amino acid sequence of mouse CXCL2 is 60 % identical to human CXCL2. This chemokine is secreted from a mouse macrophage cell line. The functional receptor for CXCL2 has been identified as CXCR2. CXCL2 is a part of chemokine superfamily, which encodes secretory proteins involved in immune regulation and inflammation. CXCL2, a critical chemokine for neutrophils, has been shown to be produced in the rat intestine in response to platelet-activating factor (PAF) and to mediate intestinal inflammation and injury.

Product Properties

Synonyms	chemokine (C-X-C motif) ligand 2, CINC-2a, CINC3, C-X-C Motif Chemokine 2, CXCL2, GRO beta, GRO2, GROB, Growth-regulated protein beta, Macrophage inflammatory protein 2-alpha, MGSA beta, MGSA-beta, MIP2, SCYB2
Accession	P10889
GeneID	20310
Source	E.coli-derived mouse MIP-2/CXCL2 protein, Ala28-Asn100.
Molecular Weight	Approximately 7.8 kDa.
AA Sequence	AVVASELRCQ CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV IATLKGQKV CLDPEAPLVQ KIIQKILNKG KAN
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 1.0-10 ng/ml. Fully biologically active when compared to standard.
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, 150 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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°C to -80°C 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 cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!