

Recombinant Rat Cytokine-induced Neutrophil Chemoattractant 1/CXCL1 (Rat CINC-1/CXCL1)

Product Information

Product Name	Cat#	Size
Recombinant Rat Cytokine-induced Neutrophil Chemoattractant 1/CXCL1 (Rat CINC-1/CXCL1)	90934ES08	5 µg
	90934ES60	100 µg
	90934ES76	500 µg

Product Description

Rat CXCL1, also known as CINC-1, is belonging to the CXC chemokine family. It is encoded by the GRO gene now designated CXCL1. Mature mouse CXCL1 shares 64% and 92% aa sequence identity with human and rat CXCL1, respectively. The CXC chemokine, CXCL1 (melanoma growth-stimulatory activity/growth-regulated protein alpha), plays a major role in inflammation, angiogenesis, tumorigenesis, and wound healing. The melanoma growth stimulatory activity/growth-regulated protein, CXCL1, is constitutively expressed at high levels during inflammation and progression of melanocytes into malignant melanoma. CXCL1 was found to be involved in monocyte arrest on atherosclerotic endothelium and may also play a pathophysiological role in Alzheimer's disease.

Product Properties

Synonyms	CINC1, CINC-1, CXCL1, FSP, GRO-alpha, Platelet-derived Growth Factor-inducible Protein KC
Accession	P14095
GeneID	81503
Source	E.coli-derived rat CINC-1/CXCL1 protein, Ala25-Lys96.
Molecular Weight	Approximately 7.8 kDa.
AA Sequence	APVANELRCQ CLQTVAGIHF KNIQSLKVMV PGPHTQTEV IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK
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 rat neutrophils is in a concentration range of 10-100 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!