
Product Data Sheet

Product Name: IP10 Guinea Pig
 Cat. No.: GP26098
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	CXCL10, CRG-2.		
Amino Acid Sequence	IPHSRTIRCT CIETSTQPVN PKSFKKLEII PASQSCPRVE IIATMKMNGE KRCLDPESKV IKNLLKAVRK ERSKRS		

Solubility It is recommended to reconstitute the lyophilized IP10 in sterile water at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM Sodium Phosphate, pH 7.5.

Introduction

Chemokine (C-X-C motif) ligand 10 (CXCL10) is a small cytokine belonging to the CXC chemokine family. CXCL10 is secreted by several cell types. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has been attributed to several roles, such as chemoattraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. The three-dimensional crystal structure of this chemokine has been determined under 3 different conditions to a resolution of up to 1.92Å.

Stability

Lyophilized IP10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IP10 Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is

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recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

IP10 Guinea Pig Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 76 amino acids and having a total molecular mass of 8.7kDa. The IP10 is purified by proprietary chromatographic techniques.

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