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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PPH32

PODS[®] Human CXCL1

Description

The product contains the polyhedrin protein co-crystallized with Human CXCL1. Also known as GRO-alpha, CXCL1 is a member of the CXC subfamily of chemokines. It is a proinflammatory cytokine and a potent neutrophil attractant, playing a role in neutrophil migration and activation. CXCL1 is both structurally and functionally related to CXCL2 and CXCL3, all of which signal primarily via the IL-8 receptor type B. In vitro, CXCL1 is cleaved into three isoforms, CXCL1(4-73), CXCL1(5-73) and CXCL1(6-73), each of which shows higher chemotactic activity than the full-length protein. CXCL1 is known to be overexpressed constitutively in tumorigenic cells, with elevated levels seen in several tumour types. Human CXCL1 shares 64% and 67% aa sequence identity with mouse and rat CXCL1, respectively.

Length	118 aa
Molecular Weight	13.05 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
Accession Number	P09341

Usage Recommendation

PODS[®] co-crystals provide a depot of proteins which are steadily secreted. It has been estimated that the biological activity of 50 million PODS[®] co-crystals generates the same peak dose as 3.3 µg of standard recombinant protein. However, at 5 days following the start of seeding the PODS[®] co-crystals, there are more than 50% of these peak levels still present in the culture system. Ultimately, the amount of PODS[®] co-crystals that is optimal for a particular experiment should be determined empirically. Based on previous data, we suggest using 50 million PODS[®] co-crystals in place of 3.3 µg of standard growth factor as a starting point. To control for cross-reactivity with cells or as a negative control, we recommend using PODS[®] growth factors alongside PODS[®] Empty crystals, as the latter do not contain or release cargo protein.

Specifications

Alternative Names	Growth-regulated alpha protein, GRO-alpha, C-X-C motif chemokine 1, Melanoma growth stimulatory activity (MGSA), Neutrophil-activating protein 3 (NAP-3)
Endotoxin Level	<0.06 EU/ml as measured by gel clot LAL assay
Formulation	PODS [®] were lyophilized from a volatile solution
AA Sequence	MADVAGTSNR DFRGREQRLF NSEQYNYNNS KNSRPSTSLY KKAGFASVAT ELRCQCLQTL QGIHPKNIQS VNVKSPGPHC AQTEVIATLK NGRKACLNPA SPIVKKIIEK MLNSDKSN

Preparation and Storage

Reconstitution	PODS [®] co-crystals may be reconstituted at 200 million co-crystals/ml in sterile PBS. 20% glucose has a buoyant density closer to PODS [®] co-crystals and can be useful for aliquoting. PODS [®] co-crystals are highly stable when stored in aqueous solution (pH range 6 - 8).
Stability and Storage	Upon receipt, store at 4°C. PODS [®] co-crystals are stable for at least 1 year when dry and 6 months when resuspended.