



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## PPH32

## PODS<sup>®</sup> 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.

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

### Usage Recommendation

PODS<sup>®</sup> co-crystals provide a depot of proteins which are steadily secreted. It has been estimated that the biological activity of 50 million PODS<sup>®</sup> 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<sup>®</sup> co-crystals, there are more than 50% of these peak levels still present in the culture system. Ultimately, the amount of PODS<sup>®</sup> co-crystals that is optimal for a particular experiment should be determined empirically. Based on previous data, we suggest using 50 million PODS<sup>®</sup> 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<sup>®</sup> growth factors alongside PODS<sup>®</sup> Empty crystals, as the latter do not contain or release cargo protein.

### Specifications

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

### Preparation and Storage

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