



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PPH159 PODS[®] Human CXCL12b / SDF-1 β

Description

The product contains the polyhedrin protein co-crystallized with Human CXCL12b. CXCL12, C-X-C motif chemokine 12 (CXCL12), is also known as Stromal cell-derived factor 1 β (SDF1 β). CXCL12 acts as a chemoattractant active on monocytes and T-lymphocytes but not neutrophils. The binding of CXCL12 to CXCR4 induces intracellular signalling through several divergent pathways which are implicated in chemotaxis, increase in intracellular calcium, cell survival and/or proliferation, and gene transcription. CXCL12 has diverse cellular functions including embryogenesis, tissue homeostasis, immune surveillance, inflammation, and tumour growth and metastasis. During embryogenesis, it is required for B-cell lymphopoiesis, myelopoiesis in bone marrow and heart ventricular septum formation.

| | |
|-------------------------|---|
| Length | 93 aa |
| Molecular Weight | 10.6 kDa |
| Source | <i>Spodoptera frugiperda (Sf9) cell culture</i> |
| Accession Number | P48061 |

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 μ g 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 μ g 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

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|--------------------------|---|
| Alternative Names | SDF1/Stromal cell-derived factor 1 |
| Endotoxin Level | <0.06 EU/ml as measured by gel clot LAL assay |
| Formulation | PODS [®] were lyophilized from a volatile solution |
| AA Sequence | MNAKVVVVLV LVLTAALCLSD GKPVSLSYRC PCRFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKIWIQ EYLEKALNKR FKM* |

Preparation and Storage

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|------------------------------|--|
| 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. |