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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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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 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	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 LVLTA LCLSD GKPVSLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKIWIQ EYLEKALNKR FKM*

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.