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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PPH327 PODS[®] Human CTGF

Description

The product contains the polyhedrin protein co-crystallized with Human CTGF. Connective Tissue Growth Factor (CTGF) is a mitogen that is secreted by vascular endothelial cells in response to basic fibroblast growth factor (FGF-2) or vascular endothelial growth factor (VEGF). CTGF promotes cell growth, migration, adhesion, and survival of endothelial cells. CTGF is also important during osteogenesis, chondrogenesis, and skeletogenesis. CTGF has an insulin-like growth factor binding protein (IGFBP) domain, a thrombospondin type 1 repeat (TSR) domain, and a C-terminal cysteine knot motif.

Length	143 aa
Molecular Weight	16.4 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
Accession Number	P29279

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](http://www.cellgs.com/products/podsand8482-empty.html), as the latter do not contain or release cargo protein.

Specifications

Alternative Names	Connective Tissue Growth Factor, IGF-binding protein 8, IGFBP8, IGFBP-8, IBP-8, CCN2, HCS24, insulin-like growth factor-binding protein HCS24, hypertrophic chondrocyte-specific protein 24, NOV2, CCN family member, 2MGC102839
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 NSEQYNNNS KNSRPSTSLY KKAGFMGKKC IRTPKISKPI KFELSGCTSM KTYRAKFCGV CTDGRCTPH RTTLPVEFK CPDGEVMKKN MMFIKTCACH YNCPGDNDIF ESLYYRKMYG DMA

Preparation and Storage

Reconstitution	PODS [®] co-crystals may be reconstituted at 200 million co-crystals/ml in water. 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.