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Produktinformation



Forschungsprodukte & Biochemikalien



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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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PPH352 PODS® Human Thrombopoietin

Description

The product contains the polyhedrin protein co-crystallized with Human Thrombopoietin. Thrombopoietin (THPO) is a key regulator of the cellular development processes that lead to platelet production, including differentiation, proliferation and maturation of megakaryocytes. THPO is a growth factor that also promotes platelet activation, aggregation and ECM adhesion. Furthermore, THPO can act in coordination with cytokines such as IL-3, IL-6 or IL-11, particularly during the early stages of thrombopoiesis. Separately from its hematopoietic effects, THPO is also expressed in the brain where it can inhibit neuronal differentiation as well as promote apoptosis of hypoxia-sensitized neurons.

Length	332 aa
Molecular Weight	40.7 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
Accession Number	NP_000451

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	THPO, Megakaryocyte Colony-Stimulating Factor, Megakaryocyte Growth And Development Factor, MGDF; MGDFC-mpl ligand; MKCSF; MK-CSF; ML; MPL ligand; MPLLG
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 KKAGFSPAPP ACDLRVLSKL LRDSHVLHSR LSQCPEVHPL PTPVLLPAVD FSLGEWKTQM EETKAQDILG AVTLLLEGVM AARGQLGPTC LSSLLGQLSG QVRLLLGALQ SLLGTQLPPQ GRTTAHKDPN AIFLSFQHLL RGKVRFLMLV GGSTLCVRRR PPTTAVPSRT SLVLTNLNLP NRTSGLLETN FTASARTTGS GLLKWQQGFR AKIPGLLNQT SRSLDQIPGY LNRIHELLNG TRGLFPGPSR RTLGAPDISS GTSDTGSLPP NLQPGYSPSP THPPTGQYTL FPLPPTLPTP VVQLHPLLPD PSAPTPTPTS PLLNTSYTHS QNLSQEG

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.