

# **DATA SHEET**

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### PPM1

## PODS® Mouse IL-3

#### Description

The product contains the polyhedrin protein co-crystalized with Mouse IL-3. Also known as Interleukin-3, IL-3 is a cytokine that is produced by activated T cells and mast cells. It induces the differentiation of hematopoietic stem cells into myeloid precursor cells, such as erythrocyte, megakaryocyte, granulocyte, monocyte, and dendritic cells. IL-3 also functions in the nervous system and is important during the B-1 cell regulation of chronic inflammatory diseases.

Length 185 aa

Molecular Weight 20.9 kDa

**Source** Spodoptera frugiperda (Sf9) cell culture

Accession Number P01586

#### **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 Interleukin-3, IL3, IL-03, Mast-Cell Growth Factor, P-Cell Stimulating Factor

**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 NSEQYNYNNS KNSRPSTSLY KKAGFASISG RDTHRLTRTL

NCSSIVKEII GKLPEPELKT DDEGPSLRNK SFRRVNLSKF VESQGEVDPE DRYVIKSNLQ KLNCCLPTSA NDSALPGVFI RDLDDFRKKL RFYMVHLNDL ETVLTSRPPQ PASGSVSPNR

GTVEC

#### **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.