

PPH127

PODS® Human CXCL10

Description

The product contains the polyhedrin protein co-crystallized with Human CXCL10. Also known as Interferon γ -induced protein 10 (IP-10), CXCL10 is a chemokine secreted by monocytes, endothelial cells and fibroblasts in response to interferon γ (IFN- γ). CXCL10 functions as a chemoattractant for activated T cells, monocytes, dendritic, and Natural Killer (NK) cells that express the G protein-coupled receptor CXCR3. It is an important factor in autoimmune diseases such as Hashimoto's thyroiditis, Graves' disease, and Type 1 diabetes mellitus.

Length	143 aa
Molecular Weight	32.1 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
Accession Number	P02778

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

Alternative Names	Interferon gamma-inducible protein 10, IP-10, Interferon gamma induced factor, gIP-10, IFI10, INP10
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 KKAGFMNQTA ILICCLIFLT LSGIQGVPLS RTVRCTCISI SNQPVNPRSL EKLEIIPASQ FCPRVEIIAT MKKKGEKRCL NPESKAIKNL LKAUSKERSK RSP

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.