CELL guidance systems

DATA SHEET

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PPH132 PODS® Human CCL13

Description

The product contains the polyhedrin protein co-crystalized with Human CCL13. A member of the CC sub-family of chemokines, CCL13 signals primarily via the CC chemokine receptors CCR2B and CCR3. It is a chemoattractant for monocytes, lymphocytes, basophils and eosinophils. It is also involved in the accumulation of leukocytes at the sites of allergic and non-allergic inflammation. The activity of this protein can be induced via several inflammatory cytokines, including interleukin-1 and TNF-α.

Length	143 aa
Molecular Weight	32.4 kDa
Source	*Spodoptera frugiperda (Sf9) cell culture*
Accession Number	Q99616

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	C-C Motif Chemokine 13, NCC-1, CK-beta-10, MCP-4, Monocyte chemoattractant protein 4, Monocyte chemotactic protein 4, SCYA13, SCYL1, Small-inducible cytokine A13
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 KKAGFMKVSA VLLCLLLMTA AFNPQGLAQP DALNVPSTCC FTFSSKKISL QRLKSYVITT SRCPQKAVIF RTKLGKEICA DPKEKWVQNY MKHLGRKAHT LKT

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.