

PPH341 PODS® Human Wnt-9a

Description

The product contains the polyhedrin protein co-crystallized with Human Wnt-9a. Wnt proteins constitute a large family of secreted proteins (sharing 20% to 85% aminoacid identity) with different roles in cell fate deciosion, axon guidance, and tumour formation, through three signaling pathways associated with the Wnt-receptor interaction.

Length 381 aa

Molecular Weight 42.6 kDa

Source *Spodoptera frugiperda (Sf9) cell culture*

Accession Number

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 Wingless type 9a, MMTV integration site family member 9a, Wnt 9a, Wnt9a

Endotoxin Level <0.06 EU/ml as measured by gel clot LAL assay

Formulation PODS® were lyophilized from a volatile solution

AA Sequence

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MADVAGTSNR DFRGREQRLF NSEQYNYNNS KNSRPSTSLY KKAGFYFGLT GSEPLTILPL
TLEPEAAAQA HYKACDRLKL ERKQRRMCRR DPGVAETLVE AVSMSALECQ FQFRFERWNC
TLEGGRYRASL LKRGFKETAFL LYAISSAGLT HALAKACSAG RMRCTCDEA PDLENREAWQ
WGGCGDNLKYS SSKFVKEFLG RRSSKDLRAR VDFHNNLVGV KVIKAGVETT CKCHGVSGSC
TVRTCWRLQLA PFHEVGKHLK HKYETALKVG STTNEAAGEA GAISPPRGRA SGAGGSDPLP
RTPELVHLDD SPSFCLAGRSPGTAGRRCH REKNCESICC GRGHNTQSRV VTRPCQCQVR
WCCYVECRQC TQREEVYTCK G
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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.