

## PPH346 PODS® Human Wnt-16b

### Description

The product contains the polyhedrin protein co-crystallized with Human Wnt-16b. Wnt proteins constitute a large family of secreted proteins (sharing 20% to 85% amino acid identity) with different roles in cell fate decision, axon guidance, and tumour formation, through three signaling pathways associated with the Wnt-receptor interaction.

<b>Length</b>	381 aa
<b>Molecular Weight</b>	42.8 kDa
<b>Source</b>	<i>Spodoptera frugiperda (Sf9) cell culture</i>
<b>Accession Number</b>	

### 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](http://www.cellgs.com/products/podsand8482-empty.html), as the latter do not contain or release cargo protein.

### Specifications

<b>Alternative Names</b>	Wingless type 16b, MMTV integration site family member 16b, Wnt 16b, Wnt16b
<b>Endotoxin Level</b>	<0.06 EU/ml as measured by gel clot LAL assay
<b>Formulation</b>	PODS® were lyophilized from a volatile solution

<b>AA Sequence</b>	MADVAGTSNR DFRGREQRLF NSEQYNYNNS KNSRPSTSLY KKAGFNMMWL GIASFGVPEK LGCANLPLNS RQKELCKRKP YLLPSIREGA RLGIQECGSQ FRHERWNCMI TAAATTAPMG ASPLFGYELS SGTKETAFIY AVMAAGLVHS VTRSCSAGNM TECSCDTTLQ NGGSASEGWH WGGCSDDVQY GMWFSRKFLD FPIGNTTGKE NKVLLAMNLH NNEAGRQAVA KLMSVDCRCH GVSGSCAVKT CWKTMSSEFEK IGHLLKDKYE NSIQISDKTK RKMRRREKDQ RKIPIHKDDL LYVNKSPNYC VEDKKLGIPIG TQGRECNRTS EGADGCNLLC CGRGYNTHVV RHVERCECKF IWCCYVRCRR CESMTDVHTC K
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### Preparation and Storage

<b>Reconstitution</b>	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).
<b>Stability and Storage</b>	Upon receipt, store at 4°C. PODS® co-crystals are stable for at least 1 year when dry and 6 months when resuspended.