

## PPH335 PODS® Human Wnt-5a

### Description

The product contains the polyhedrin protein co-crystallized with Human Wnt-5a. 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. Wnt-5a is expressed by multiple cell types including astrocytes, chondrocytes, mammary epithelium cells, CD34+ primitive progenitor stem cells, chondrocytes, and mesenchymal cells.

<b>Length</b>	364 aa
<b>Molecular Weight</b>	41 kDa
<b>Source</b>	<i>Spodoptera frugiperda (Sf9) cell culture</i>
<b>Accession Number</b>	P22725

### 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 5a, Wingless-type MMTV integration site family member 5A, WNT-5A protein, Wnt5a, Wnt 5a
<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 KKAGFIIGAQ PLCSQLAGLS QGQKKLCHLY QDHMQYIGEG AKTGIKECQY QFRHRRWNCS TVDNTSVFGR VMQIGSRETA FTYAVSAAGV VNAMSRACRE GELSTCGCSR AARPkdLPRD WLWGGCGDNI DYGYRFAKEF VDARERERIH AKGSYESARI LMNLHNNEAG RRTVYNLADV ACKCHGVSGS CSLKTCWLQL ADFRKVGDAL KEKYDSAAAM RLNSRGKLVQ VNSRFNSPTT QDLVYIDPSP DYCVRNESTG SLGTQGRLCN KTSEGMDGCE LMCCGRGYDQ FKTVQTERCH CKFHWCYVK CKKCTEIVDQ FVCK

### 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.