

PPH344 PODS[®] Human Wnt-10b

Description

The product contains the polyhedrin protein co-crystallized with Human Wnt-10b. 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.

Length	406 aa
Molecular Weight	45.2 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
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](http://www.cellgs.com/products/podsand8482-empty.html), as the latter do not contain or release cargo protein.

Specifications

Alternative Names	Wingless type 10b, MMTV integration site family member 10b, Wnt 10b, Wnt10b
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 KKAGFNEILG LKLPGEPLT ANTVCLTSLG LSKRQLGLCL RNPDVTSAL QGLHIIVHEC QHQLRDQRWN CSALEGGGRL PHHSAILKRG FRESAFSFSM LAAGVMHAVA TACSLGKLVS CGCGWKGSGE QDRLRAKLLQ LQALSRGKSF PHSLPSPGPG SSPSPGPQDT WEWGGCNHDM DFGEKFSRDF LDSREAPRDI QARMRIHNNR VGRQVVTENL KRKCKCHGTS GSCQFKTCWR AAPEFRAVGA ALRERLGRAI FIDTHNRNSG AFQPRLRPRR LSGELVYFEK SPDFCERDPT MGSPGTRGRA CNKTSRLLDG CGSLCCGRGH NVLRQTRVER CHCRFWCCY VLCDECKVTE WNVNCK

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.