

## PPM301 PODS® Mouse Ephrin-B2

### Description

The product contains the polyhedrin protein co-crystallized with Mouse Ephrin-B2. Ephrin-B2 is a member of Ephrin-B family, and it is also known as Htk-L, ELF-2, LERK-5, and NLERK-1. Mouse Ephrin-B2 shares 97% identity with human Ephrin-B2. Ephrin-B proteins are involved in cell migration, tissue morphogenesis and cancer progression. Ephrin-B2 is expressed by vascular cells and lymphatic endothelium, exerting proliferative and migratory effects on these cells during angiogenesis and lymphangiogenesis.

<b>Length</b>	245 aa
<b>Molecular Weight</b>	27 kDa
<b>Source</b>	<i>Spodoptera frugiperda (Sf9) cell culture</i>
<b>Accession Number</b>	AAA82934

### 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>	EphrinB2, EphB2, ephrin, Htk-L, ELF-2, LERK-5, NLERK-1
<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 KKAGLMVIIV LEPIYWNSSN SKFLPGQGLV LYPQIGDKLD IICPKVDSKT VGQYEYYKVY MVDKDQADRC TIKKENTPLL NCARPDQDVK FTIKFQEFSP NLWGLEFQKN KDYYIIISTN GSLEGLDNQE GGVCQTRAMK ILMKVGQDAS SAGSARNHGP TRRPELEAGT NGRSSTTSPF VKPNPGSSTD GNSAGHSGNN LLGSE

### 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.