

## PPH311 PODS<sup>®</sup> Human Ephrin-A3

### Description

The product contains the polyhedrin protein co-crystallized with Human Ephrin-A3. Ephrin-A3 is a member of Ephrin-A family, and it is also known as EHK1-L, EFL-2, and LERK-3. Ephrin-A ligands are structurally related to the extracellular domains of the transmembrane Ephrin-B ligands. Eph-Ephrin interactions are widely involved in the regulation of cell migration, tissue morphogenesis, and cancer progression. Ephrin-A3 expression can be up- or down-regulated by hypoxia in the hippocampus or vascular endothelial cells, respectively. Ephrin-A3 interaction with EphA receptors induces neurite growth cone collapse and the repulsion of migrating axons, which is important for the accurate migration of axons during CNS development.

<b>Length</b>	253 aa
<b>Molecular Weight</b>	28.7 kDa
<b>Source</b>	<i>Spodoptera frugiperda (Sf9) cell culture</i>
<b>Accession Number</b>	AAA52368

### Usage Recommendation

PODS<sup>®</sup> co-crystals provide a depot of proteins which are steadily secreted. It has been estimated that the biological activity of 50 million PODS<sup>®</sup> 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<sup>®</sup> co-crystals, there are more than 50% of these peak levels still present in the culture system. Ultimately, the amount of PODS<sup>®</sup> co-crystals that is optimal for a particular experiment should be determined empirically. Based on previous data, we suggest using 50 million PODS<sup>®</sup> 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<sup>®</sup> growth factors alongside [PODS<sup>®</sup> 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>	EphrinA3, EFL2, EFL-2, EFNA3, Ehk1-L, EPH-related receptor tyrosine kinase ligand 3, EPLG3EHK1 ligand, LERK-3, LERK3, ligand of eph-related kinase 3
<b>Endotoxin Level</b>	<0.06 EU/ml as measured by gel clot LAL assay
<b>Formulation</b>	PODS <sup>®</sup> were lyophilized from a volatile solution
<b>AA Sequence</b>	MADVAGTSNR DFRGREQRLF NSEQYNNNS KNSRPSTSLY KKAGFNHRAV YWNSSNQHLR REGYTVQVNV NDYLDIYCPH YNSSGVGPGA GPGPGGGAEQ YVLYMVS RNG YRTCNASQGF KRWECNRPHA PHSPIKFSEK FQRYSAFSLG YEFHAGHEY YISTPTHNLH WKCLRMKV FV CCASTSHSGE KPVPTLPQFT MGPVVKINVL EDFEGENPQV PKLEKSISGT SPKREHLPLA VGIAFFLMTF LAS

### Preparation and Storage

<b>Reconstitution</b>	PODS <sup>®</sup> co-crystals may be reconstituted at 200 million co-crystals/ml in water. 20% glucose has a buoyant density closer to PODS <sup>®</sup> co-crystals and can be useful for aliquoting. PODS <sup>®</sup> 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 <sup>®</sup> co-crystals are stable for at least 1 year when dry and 6 months when resuspended.

