

## PPH310 PODS® Human Ephrin-A1

### Description

The product contains the polyhedrin protein co-crystallized with Human Ephrin-A1. Ephrin-A1 is a member of Ephrin-A family, and it is also known as B61 and LERK-1. 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-A1 is widely expressed on endothelial and epithelial cells, particularly in the lung, intestine, liver, and skin.

<b>Length</b>	232 aa
<b>Molecular Weight</b>	27.1 kDa
<b>Source</b>	<i>Spodoptera frugiperda (Sf9) cell culture</i>
<b>Accession Number</b>	P20827

### 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>	EphrinA1, ECKLG, EFL1, EFL-1, EFNA1, EPH-related receptor tyrosine kinase ligand 1, immediate early response protein B61, B61, LERK1, LERK-1, ligand of eph-related kinase 1, TNFAIP4B61, tumor necrosis factor alpha-induced protein 4, EPLG1TNF alpha-induced
<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 NSEQYNNNS KNSRPSTSLY KKAGFDRHTV FWNSSNPKFR NEDYTIHVQL NDYVDIICPH YEDHSVADAA MEQYILYLVE HEEYQLCQPQ SKDQVRWQCN RPSAKHGPEK LSEKFQRFPT FTLGKEFKEG HSYYYISKPI HQHEDRCLRL KVTVSGKITH SPQAHVNPQE KRLAADDPEV RVLHSIGHSA APRLFPLAWT VLLPLLLLQ TP

### 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.