

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.

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

Alternative Names	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
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 NSEQYNNNS KNSRPSTSLY KKAGFDRHTV FWNSSNPKFR NEDYTIHVQL NDYVDIICPH YEDHSVADAA MEQYILYLVE HEEYQLCQPQ SKDQVRWQCN RPSAKHGPEK LSEKFQRFPT FTLGKEFKEG HSYYYISKPI HQHEDRCLRL KVTVSGKITH SPQAHVNPQE KRLAADDPEV RVLHSIGHSA APRLFPLAWT VLLLPLLLLQ TP

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.