PPH312 PODS® Human Ephrin-A4

Description

The product contains the polyhedrin protein co-crystalized with Human Ephrin-A4. Ephrin-A4 is a member of Ephrin-A famil, and it is also known as EFL-4 and LERK-4. 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-A4 plays a role in the development of neural tissue.

Length	191 aa
Molecular Weight	21.6 kDa
Source	*Spodoptera frugiperda (Sf9) cell culture*
Accession Number	P52798

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, as the latter do not contain or release cargo protein.

Specifications

Alternative Names	EphrinA4, EFL4, EFL-4, EFNA4, EPLG4MGC125826, LERK-4, LERK4FLJ57652, ligand of eph-related kinase 4, EPH-related receptor tyrosine kinase ligand 4
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 KKAGFLRHVV YWNSSNPRLL RGDAVVELGL NDYLDIVCPH YEGPGPPEGP ETFALYMVDW PGYESCQAEG PRAYKRWVCS LPFGHVQFSE KIQRFTPFSL GFEFLPGETY YYISVPTPES SGQCLRLQVS VCCKERKSES AHPVGSPGES G

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.