DATA SHEET

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PPH313 PODS® Human Ephrin-B2

Description

The product contains the polyhedrin protein co-crystalized with Human 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, exercing proliferative and migratory effects on these cells during angiogenesis and lymphangiogenesis.

Length	249 aa
Molecular Weight	27.6 kDa
Source	*Spodoptera frugiperda (Sf9) cell culture*
Accession Number	P52799

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	EphrinB2, EphB2, ephrin, Htk-L, ELF-2, LERK-5, NLERK-1
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 KKAGFKSIVL EPIYWNSSNS KFLPGQGLVL YPQIGDKLDI ICPKVDSKTV GQYEYYKVYM VDKDQADRCT IKKENTPLLN CAKPDQDIKF TIKFQEFSPN LWGLEFQKNK DYYIISTSNG SLEGLDNQEG GVCQTRAMKI LMKVGQDASS AGSTRNKDPT RRPELEAGTN GRSSTTSPFV KPNPGSSTDG NSAGHSGNNI LGSEVALFA

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.