

PPH326 PODS[®] Human FGF-19

Description

The product contains the polyhedrin protein co-crystallized with Human FGF-19. Fibroblast Growth Factor 19 promotes proliferation and differentiation of cells. The FGF family of growth factors act on cells of mesodermal and neuroectodermal origin to regulate diverse physiologic functions including angiogenesis, cell growth, pattern formation, embryonic development, metabolic regulation, cell migration, neurotrophic effects and tissue repair.

Length	237 aa
Molecular Weight	26.6 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
Accession Number	O95750

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	Fibroblast Growth Factor 19, FGF19, FGF 19
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 KKAGFLAFSD AGPHVHYGWG DPIRLRHLYT SGPHGLSSCF LRIRADGVVD CARGQSAHSL LEIKAVALRT VAIKGVHSVR YLCMGADGKM QGLLQYSEED CAFEEEEIRPD GYNVYRSEKH RLPVSLSSAK QRQLYKNRGE LPLSHFLPML PMVPEEPEDL RGHLESDMFS SPLETDSMDP FGLVTGLEAV RSPSFEK

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.