

DATA SHEET

PPH322 PODS® Human Semaphorin 3C

Description

The product contains the polyhedrin protein co-crystalized with Human Semaphorin 3C. Semaphorin 3C is a secreted semaphorin and potent chemorepellent during axon and vascular guidance in the development stage. Semaphorin 3C is upregulated in tumour progression and expressed in lung and neural cells.

Length 763 aa

Molecular Weight 173.2 kDa

Source Spodoptera frugiperda (Sf9) cell culture

Accession Number Q99985

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

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 KKAGFGSSQP QARVYLTFDE

LRETKTSEYF SLSHHPLDYR ILLMDEDQDR IYVGSKDHIL SLNINNISQE ALSVFWPAST IKVEECKMAG KDPTHGCGNF VRVIQTFNRT HLYVCGSGAF SPVCTYLNRG RRSEDQVFMI DSKCESGKGR CSFNPNVNTV SVMINEELFS GMYIDFMGTD AAIFRSLTKR NAVRTDQHNS KWLSEPMFVD AHVIPDGTDP NDAKVYFFFK EKLTDNNRST KQIHSMIARI CPNDTGGLRS LVNKWTTFLK ARLVCSVTDE DGPETHFDEL EDVFLLETDN PRTTLVYGIF TTSSSVFKGS AVCVYHLSDI QTVFNGPFAH KEGPNHQLIS YQGRIPYPRP GTCPGGAFTP NMRTTKEFPD DVVTFIRNHP LMYNSIYPIH KRPLIVRIGT DYKYTKIAVD RVNAADGRYH VLFLGTDRGT VQKVVVLPTN NSVSGELILE ELEVFKNHAP ITTMKISSKK QQLYVSSNEG VSQVSLHRCH IYGTACADCC LARDPYCAWD GHSCSRFYPT GKRRSRQDV RHGNPLTQCR GFNLKAYRNA AEIVQYGVKN NTTFLECAPK SPQASIKWLL QKDKDRRKEV KLNERIIATS QGLLIRSVQG SDQGLYHCIA TENSFKQTIA KINFKVLDSE MVAVVTDKWS PWTWASSVRA LPFHPKDIMG

AFSHSEMQMI NQYCKDTRQQ HQQGDESQKM RGDYGKLKAL INS

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

