

DATA SHEET

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PPH325 PODS® Human EPO

Description

The product contains the polyhedrin protein co-crystalized with Human EPO. Erythropoietin is a glycoprotein hormone in the type I cytokine family. EPO is primarily produced in the kidney by a population of fibroblast-like cortical interstitial cells adjacent to the proximal tubules, and in much lower quantity, but functionally significant amounts, by fetal hepatocytes. EPO plays a role in erythropoiesis being responsible for stimulating proliferation and differentiation of erythroid progenitor cells.

Length 211 aa

Molecular Weight 23.6 kDa

Source Spodoptera frugiperda (Sf9) cell culture

Accession Number CAA26094

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 Erythropoietin, EP, epoetin, MGC138142, MVCD2

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 KKAGFAPPRL ICDSRVLERY

LLEAKEAENI TTGCAEHCSL NENITVPDTK VNFYAWKRME VGQQAVEVWQ GLALLSEAVL RGQALLVNSS QPWEPLQLHV DKAVSGLRSL TTLLRALGAQ KEAISPPDAA SAAPLRTITA

DTFRKLFRVY SNFLRGKLKL YTGEACRTGD R

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.