

PP304 PODS® mCherry

Description

The product contains polyhedrin protein co-crystallized with mCherry. mCherry is a uniquely versatile biomarker and, encased into PODS® crystals, offers a simple way to visualize and localize PODS® crystals embedded in biomaterials, such as hydrogels and scaffolds, using fluorescence microscopy. PODS® mCherry crystals can be excited at 587 nm and optimally detected at 610 nm, compatible with commonly available filter sets.

Length	237
Molecular Weight	31.9 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>

Usage Recommendation

PODS® mCherry crystals display the same physical properties as other PODS® growth factor products. While PODS® mCherry behave in the same way as other PODS® co-crystals, they differ in that they not contain a cargo protein that elicits effects on cells. Instead of this, they have fluorescent proteins (mCherry) embedded. PODS® mCherry can be used analogous to PODS® Empty as an inert control, but the primary purpose is to enable visualization and localization of PODS® crystals in cell culture, e.g. in 3D scaffolds, hydrogels and other biomaterials, utilizing fluorescence microscopy.

Specifications

Alternative Names	M Cherry, mCherry protein, mCherry fluorescent protein
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 NSEQYNNNS KNSRPSTSLY KKAGFMVSKG EEDNMAIIKE FMRFKVHMEG SVNGHEFEIE GEGEGRPYEG TQTAKLKVTK GGPLPFAWDI LSPQFMYGSK AYVKHPADIP DYKLSFPEG FKWERVMNFE DGGVVTVTQD SSLQDGEFIY KVKLRGTNFP SDGPVMQKKT MGWEASSERM YPEDGALKGE IKQRLKLDG GHYDAEVKTT YKAKKPVQLP GAYNVNIKLD ITSHNEDYTI VEQYERAAGR HSTGGMDELY K

Preparation and Storage

Reconstitution	PODS® co-crystals may be reconstituted at 200 million co-crystals/ml in sterile PBS. 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.