

Product Name: ci-IP3/PM

Catalog No.: 6210

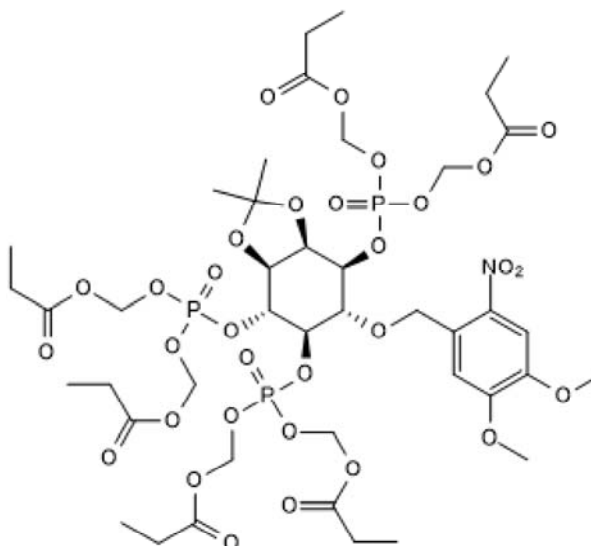
Batch No.: 5

CAS Number: 1009832-82-9

IUPAC Name: 6-O-[(4,5-Dimethoxy-2-nitrophenyl)methyl]-2,3-O-(1-methylethylidene)-D-*myo*-Inositol 1,4,5-tris[bis[(1-oxopropoxy)methyl]phosphate]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₂ H ₆₄ NO ₃₁ P ₃
Batch Molecular Weight:	1171.87
Physical Appearance:	oil
Solubility:	Soluble in DMSO
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98% purity
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

ci-IP3/PM is a caged inositol triphosphate. Cell permeable. UV photolysis ($\lambda = 330$ nm) in HeLa cells releases i-IP₃, promoting Ca²⁺-release from internal stores. F 127 (Cat. No. 6253) for the solubilization of ci-IP3/PM is also available.

Physical and Chemical Properties:

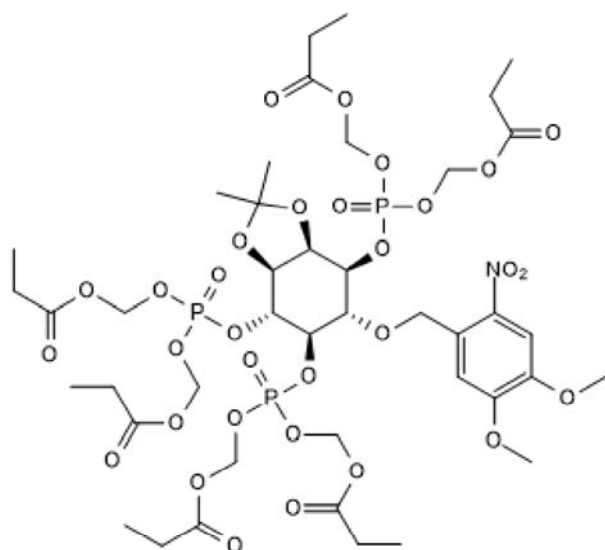
Batch Molecular Formula: C₄₂H₆₄NO₃₁P₃

Batch Molecular Weight: 1171.87

Physical Appearance: oil

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in DMSO

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lock et al (2017) Comparison of Ca²⁺ puffs evoked by extracellular agonists and photoreleased IP₃. *Cell Calcium*. PMID: 28108028.

Dakin and Li et al (2007) Cell membrane permeable esters of D-myoinositol 1,4,5-trisphosphate. *Cell Calcium* **42** 291. PMID: 17307252.

Zhang et al (2004) Endothelin-1 and IP₃ induced Ca²⁺ sparks in pulmonary arterial smooth muscle cells. *J.Cardiovasc.Pharmacol.* **44** S121. PMID: 15838259.

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