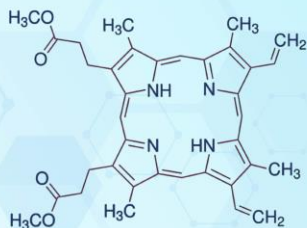


Protoporphyrin IX Dimethyl Ester



PRODUCT IN FOCUS



Protoporphyrin IX Dimethyl Ester

INTRODUCTION

Protoporphyrin IX dimethyl ester, abbreviated PPMX, is an organic moiety belonging to category porphyrins. On exposure to light, PPMX releases reactive oxygen that can be used to destroy targeted cancer cells and thus it find applications largely in medicines.

Manufacture

It is produced by esterification of protoporphyrin IX. The latter is synthesized by oxidation of protoporphyrinogen by enzyme *Protoporphyrinogen Oxidase*.

Synonym	PPMX Ooporphyrin dimethyl ester
CAS no.	5522-66-7
EINECS no.	226-870-3
Molecular formula	$C_{36}H_{38}N_4O_4$
Molecular weight	590.71
Structure	

Applications

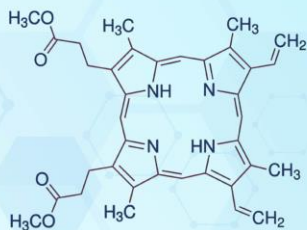
Derivatives

- Porphyrin S-411
- Protoporphyrin A
- Harderoporphyrin
- Hematoporphyrin

Others

- A potent photosensitizer of human nasopharyngeal carcinoma
- An important precursor to biologically essential prosthetic groups such as Cytochrome C
- As a standard material in acid extraction of erythrocyte protoporphyrin

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SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	Black powder
Solubility	-	Soluble in acetonitrile:THF = 1:1
Identification		
By TLC	-	Should be positive
By NMR	-	Should conform to the structure
Purity	%	Min 85.0
LOD	%	Max 5.0
Ash	%	Max 0.5

STORAGE

Stored at 2 - 8°C

PACKING

5 kg, 10 kg, and 10 kg drum

REACH Status

Not registered

ExSyn offers PPMX on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.