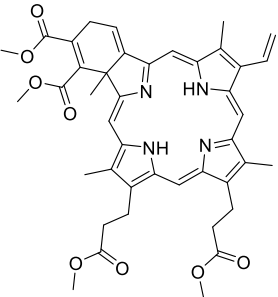




## Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
610223	VWN38241 (BPD-A-1,4-diene)	CQQ90923

Chemical name	
23H,25H-Benzo[b]porphine-9,13-dipropanoic acid,18-ethenyl-2,4a-dihydro-3,4-bis(methoxycarbonyl)-4a,8,14,19- tetramethyl-, dimethyl ester	
Synonyms	
benzoporphyrin derivative Ring A -1,4-diene; BPD-A-1,4-diene;	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 610223 Name: VWN38241 CAS#: 94238-24-1 Lot#CQQ90923 Chemical Formula: C <sub>42</sub> H <sub>44</sub> N <sub>4</sub> O <sub>8</sub> Exact Mass: 732.31591 Molecular Weight: 732.83

Analysis item	Specifications / Results
Appearance	Black solid powder
Structure	<sup>1</sup> H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Solubility	Soluble in DMSO
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**