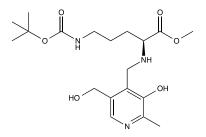


Catalog # 10-4553 POB

CAS# 946135-39-3 N-(4'-Pyridoxyl)-L-Ornithine(BOC)-OMe Lot # FBA2140



Pyridoxal 5'-phosphate – dependent ornithine decarboxylase (ODC) is a key enzyme involved in polyamine synthesis and a potential cancer drug target. POB is a transition state-based, cell permeable pro-drug inhibitor of ODC. Intracellularly, POB is phosphorylated by pyridoxal kinase and the methyl ester hydrolyzed. This active inhibitor most likely binds apo-ODC resulting in greatly reduced ODC activity and inhibition of cellular proliferation. POB was able to inhibit proliferation in a wide variety of tumor cell lines: LN229 (IC₅₀ = 50 μ M), Jurkat, COS7, SW2 and both high and low-grade glioblastoma multiforme. More potent than DFMO.

- 1) Wu et al., (2007), New transition state-based inhibitor for human ornithine decarboxylase inhibits growth of tumor cells; Mol. Cancer Ther. **6** 1831
- 2) Wu et al., (2011), A novel approach to inhibit intracellular vitamin B6-dependent enzymes: proof of principle with human and plasmodium ornithine decarboxylase and human histidine decarboxylase; FASEB J. **25** 2109

PHYSICAL DATA

Molecular Weight:	397.47
Molecular Formula:	C ₁₉ H ₃₁ N ₃ O ₆
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in Ethanol (> 25 mg/mL), DMSO (>25 mg/ml) or Water (2 mg/mL with warming).
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in ethanol or
	DMSO may be stored at -20°C for up to 1 month. Solutions in water should be made fresh daily.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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