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Product Datasheet

Methylbenzoprim, CAS [[118344-71-1]]
FBM-10-4892

Article Name	Methylbenzoprim, CAS [[118344-71-1]]
Biozol Catalog Number	FBM-10-4892
Supplier Catalog Number	10-4892
Alternative Catalog Number	FBM-10-4892-5MG, FBM-10-4892-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Dual TYMS/DHFR inhibitor...
Molecular Weight	378.44
Purity	>98% by HPLC NMR (Conforms)
Form	Red/Orange solid
CAS Number	[118344-71-1]
Formula	C20H22N6O2
Application Notes	<p>Methylbenzoprim, a derivative of the antimalarial drug Pyrimethamine, is a non-classical potent inhibitor of mammalian dihydrofolate reductase (IC50 = 3.2 nM rat liver).¹ It inhibited melanoma tumor growth both in vitro and in vivo.² Methylbenzoprim has been recently found to also inhibit thymidylate synthase (TYMS) with activity comparable to the 5-FU metabolite FdUrd.³ It was more potent than 5-fluorouracil in a panel of 4 pancreatic ductal adenocarcinoma cells lines and without TYMS overexpression that frequently leads to drug resistance.³ Methylbenzoprim inhibited tumor growth and progression in two pancreatic cancer xenograft models. Orally bioavailable.</p>