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Product Datasheet

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

Artikelname	Methylbenzoprim, CAS [[118344-71-1]]
Artikelnummer	FBM-10-4892
Hersteller Artikelnummer	10-4892
Alternativnummer	FBM-10-4892-5MG,FBM-10-4892-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Dual TYMS/DHFR inhibitor...
Molekulargewicht	378.44
Reinheit	>98% by HPLC NMR (Conforms)
Formulierung	Red/Orange solid
CAS Nummer	[118344-71-1]
Formel	C20H22N6O2

Anwendungsbeschreibung	Methylbenzoprim, a derivative of the antimalarial drug Pyrimethamine, is a non-classical potent inhibitor of mammalian dihydrofolate reductase ($IC_{50} = 3.2 \text{ nM}$ 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.
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