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Product Datasheet

Methylbenzoprim, CAS [[118344-71-1]]

FBM-10-4892

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| 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> |