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Product Datasheet

CPI-613, CAS [[95809-78-2]]

FBM-10-3519

Article Name	CPI-613, CAS [[95809-78-2]]
Biozol Catalog Number	FBM-10-3519
Supplier Catalog Number	10-3519
Alternative Catalog Number	FBM-10-3519-5MG, FBM-10-3519-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	KGDH and PDH inhibitor...
Molecular Weight	388.59
Purity	98% by TLC NMR (Conforms)
Form	White solid
CAS Number	[95809-78-2]
Formula	C22H28O2S2
Application Notes	Lipoic acid analog which potently disrupts mitochondrial metabolism with selectivity for tumor cells in vitro and shows strong antitumor activity in vivo. ¹ Inhibits alpha-ketoglutarate dehydrogenase (KGDH) by a redox mechanisms selectively in tumor cells. ² Inhibits pyruvate dehydrogenase (PDH) as a mechanistically distinct, non-redox, effect. ^{1,2} A novel anticancer agent with a mitochondria-targeted mode of action with non-genotoxic propertie. ³ Has been used (along with PS48) to induce a Warburg-like metabolic state in fibroblasts. ⁴ Combination treatment of CPI-613 and chloroquine inhibits the progression of clear cell sarcoma in a mouse model. ⁵