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Product Datasheet

CBR-5884, CAS [[681159-27-3]] FBM-10-1588

Article Name	CBR-5884, CAS [[681159-27-3]]
Biozol Catalog Number	FBM-10-1588
Supplier Catalog Number	10-1588
Alternative Catalog Number	FBM-10-1588-5MG,FBM-10-1588-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	PHGDH / serine biosynthesis inhibitor...
Molecular Weight	336.39
Purity	98% by TLC, NMR (Conforms)
Form	Off-white solid
CAS Number	[681159-27-3]
Formula	C14H12N2O4S2
Application Notes	Potent and selective inhibitor of 3-phosphoglycerate dehydrogenase (PHGDH), IC50=33 µM1. The action of PHGDH is the first committed step of serine biosynthesis2 and certain cancer cells overexpress PHGDH3. CBR-5884 inhibits serine biosynthesis in cells with no effect on two other dehydrogenases, lactate dehydrogenase and MDH1 and without general cytotoxic effects up to 40 µM. CBR-5884 is selectively toxic to tumor cells with high serine synthesis activity. A novel tool for selective inhibition of serine biosynthesis in cells which also provides further proof that PHGDH is a viable target for the development of novel anticancer agents1.