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Product Datasheet

ML239

FBM-10-1417

Article Name	ML239
Biozol Catalog Number	FBM-10-1417
Supplier Catalog Number	10-1417
Alternative Catalog Number	FBM-10-1417-5MG,FBM-10-1417-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Selective cancer stem cell killer...
Molecular Weight	346.60
Purity	98% by TLC, NMr (Conforms)
Form	Beige solid
CAS Number	[1378872-36-6]
Formula	C13 H10 Cl3 N3 O2
Application Notes	<p>A novel inhibitor of the growth and proliferation of breast cancer stem cells (CSC) discovered in a phenotypic screen employing CSC-like cells produced by inducing human breast epithelial cells into an epithelial-to-mesenchymal transdifferentiated state (HMLE_sh_ECad). ML239 displayed an IC50=1.18 μM against HMLE_sh_ECad and demonstrated a >23-fold selectivity over control cells. It was also toxic to two other CSC-like lines^{1,2}. Gene expression studies showed altered gene expression in the NFkappaB pathway¹ and support activation of fatty acid desaturase 2 (FADS2) as a potential mechanism of action for ML239.³</p>