

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

MBQ-167, CAS [[2097938-73-1]] FBM-10-4434

Article Name	MBQ-167, CAS [[2097938-73-1]]
Biozol Catalog Number	FBM-10-4434
Supplier Catalog Number	10-4434
Alternative Catalog Number	FBM-10-4434-5MG,FBM-10-4434-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Rac/Cdc42 inhibitor...
Molecular Weight	338.41
Purity	>98% by HPLC NMR (Conforms)
Form	Off-white solid
CAS Number	[2097938-73-1]
Formula	C22H18N4

Application Notes

Dual inhibitor of the Rho GTPases Rac ($IC_{50} = 103 \text{ nM}$) and Cdc42 ($IC_{50} = 78 \text{ nM}$).¹ It inhibits breast cancer cell migration, viability, and mammosphere formation. MBQ-167 induced polarity loss resulting in 95% cell rounding and detachment from the substratum in metastatic MDA-MB-231 cells and was active in GFP-HER2-BM, MDA-MB-468, and Hs578t breast cancer cells as well as Mia-PaCa-2 pancreatic cancer cells, SKOV3 ovarian cancer cells, AGS and NCI-N87 gastric cancer cells, and SH-SY5Y neuroblastoma cells. Non-cancerous mammary epithelial MCF10A and epithelial breast cancer MCF-7 cells were resistant to MBQ-167. MBQ-167 inhibited viability and induced apoptosis in gefitinib and lapatinib resistant SKBR3 breast cancer cells.² MBQ-167 inhibited triple negative breast cancer tumor growth and lung metastasis in a mouse model.³ Active in vivo.