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Product Datasheet

BRM014

FBM-10-5244

Article Name	BRM014
Biozol Catalog Number	FBM-10-5244
Supplier Catalog Number	10-5244
Alternative Catalog Number	FBM-10-5244-1MG,FBM-10-5244-5MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	BRM / BRG1 ATPase inhibitor...
Molecular Weight	318.27
Purity	>98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[2270879-17-7]
Formula	C11H9F3N4O2S

Application Notes

SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin subfamily A member 2 (SMARCA2), also known as Brahma homologue (BRM), together with its close homologue Brahma-related gene 1 (BRG1), or SMARCA4, are ATPases of the large ATP-dependent SWI/SNF chromatin-remodeling complexes involved in transcriptional regulation of gene expression. BRM014 is an allosteric dual inhibitor of BRM and BRG1 ($IC_{50} < 5$ nM for both).¹ It downregulated BRM-dependent gene expression and displayed antiproliferative activity in a BRG1-mutant-lung-tumor xenograft model after oral administration. Inhibition of BRG1/BRM ATPase by BRM014 inhibits chromatin openness.² For example, it reduced DNA accessibility to core regulatory factors (RUNX1, LM01 and MEIS1) at transcription factor PU.1 sites in AML cells.³ P583 cells formed markedly large spheroids when treated with BRM014.⁴ Cell permeable and active in vivo.