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Product Datasheet

DBIC, CAS [[487026-67-5]] FBM-10-5161

Article Name	DBIC, CAS [[487026-67-5]]
Biozol Catalog Number	FBM-10-5161
Supplier Catalog Number	10-5161
Alternative Catalog Number	FBM-10-5161-5MG, FBM-10-5161-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	DNMT3B S-nitrosylation inhibitor...
Molecular Weight	296.29
Purity	>98% by TLC NMR (Conforms)
Form	Grey solid
CAS Number	[487026-67-5]
Formula	C15H12N4O3
Application Notes	Specifically inhibits S-nitrosylation of DNA methyltransferase 3B (DNMT3B) at low concentrations, IC50 100 nM, without affecting its enzymatic activity. Treatment with DBIC prevents nitric oxide-induced conversion of human colonic adenoma to adenocarcinoma in vitro. Treatment with DBIC strongly attenuates tumor development in a mouse model of carcinogenesis triggered by inflammation-induced NO production. DNMT3B-mediated DNA methylation is regulated by S-nitrosylation and DBIC represents a new useful tool for studying this system. ¹ A negative control compound, DBIC-neg2 (Cat 10-5162) is also available.