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Product Datasheet

NH125, CAS [[278603-08-0]]
FBM-10-4840

Article Name	NH125, CAS [[278603-08-0]]
Biozol Catalog Number	FBM-10-4840
Supplier Catalog Number	10-4840
Alternative Catalog Number	FBM-10-4840-5MG,FBM-10-4840-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Eukaryotic elongation factor 2 (eEF-2) kinase inhibitor...
Molecular Weight	524.56
Purity	98% by TLC NMR (Conforms)
Form	Off-white solid
CAS Number	[278603-08-0]
Formula	C27H45IN2
Application Notes	NH125 was originally discovered as an antibacterial agent active against various Gram-positive and -negative bacteria via inhibition of histidine protein kinase.¹ It was also found to be a potent inhibitor of eukaryotic elongation factor 2 (eEF-2) kinase (IC₅₀ = 60 nM) with efficacy against a broad spectrum of human cancer cell lines.² Other studies have linked the anticancer effects of NH125 to induction of eEF2 phosphorylation.^{3,4} NH125 has also been shown to engage the EIF2α-ATF4-CHOP axis resulting in induction of DR5 expression.⁵ Treatment of glioma stem cells with NH125 resulted in a sustained decrease in tumor volume via activation of integrated stress response (ISR) and GADD45 pathways.⁵