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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	<p>NH125 was originally discovered as an antibacterial agent active against various Gram-positive and -negative bacteria via inhibition of histidine protein kinase.<sup>1</sup> It was also found to be a potent inhibitor of eukaryotic elongation factor 2 (eEF-2) kinase (IC<sub>50</sub> = 60 nM) with efficacy against a broad spectrum of human cancer cell lines.<sup>2</sup> Other studies have linked the anticancer effects of NH125 to induction of eEF2 phosphorylation.<sup>3,4</sup> NH125 has also been shown to engage the EIF2a-ATF4-CHOP axis resulting in induction of DR5 expression.<sup>5</sup> 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.<sup>5</sup></p>