FOR RESEARCH ONLY!



NH125

ALTERNATE NAMES:	1-benzyl-3-hexadecyl-2-methylimidazol-1-ium,iodide; 1-Benzyl-3-Cetyl-2-Methylimidazolium Iodide; eEF- 2 Kinase Inhibitor; 1-Hexadecyl-2-methyl-3-(phenylmethyl)-1H-imidazolium iodide
CATALOG #:	B2909-1 1 mg B2909-5 5 mg
STRUCTURE:	
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MOLECULAR FORMULA:	$C_{27}H_{45}IN_2$
MOLECULAR WEIGHT:	524.56
CAS NUMBER:	278603-08-0
APPEARANCE:	A crystalline solid
PURITY:	≥95%
SOLUBILITY:	~5 mg/ml in Ethanol ~15 mg/ml in DMF ~2.5 mg/ml in DMSO
DESCRIPTION:	NH125 is an imidazole that has potent antibacterial properties in drug-resistant bacteria. It inhibits histidine protein kinase YycG with an IC ₅₀ of 6.6 μ M. It selectively inhibits eEF-2 kinase activity with an IC ₅₀ of 60 nM <i>in vitro</i> and weakly inhibits PKC, PKA and CaMK II. It also decreases the viability of several cancer cell lines with IC ₅₀ values ranging from 0.7-4.7 μ M.
STORAGE TEMPERATURE:	-20ºC. Protect from air. Store under desiccating conditions.
REFERENCES:	 Yamamoto, K., Kitayama, T., Minagawa, S., et al. Antibacterial agents that inhibit histidine protein kinase YycG of Bacillus subtilis. Bioscience, Biotechnology, and Biochemistry 65(10), 2306-2310 (2001). Yamamoto, K., Kitayama, T., Ishida, N., et al. Identification and characterization of a potent antibacterial agent, NH125 against drug-resistant bacteria. Bioscience, Biotechnology, and Biochemistry 64(4), 919-923 (2000). Arora, S., Yang, J.M., Kinzy, T.G., et al. Identification and characterization of an inhibitor of eukaryotic elongation factor 2 kinase against human cancer cell lines. Cancer Research 63, 6894-6899 (2003).
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.
RELATED PRODUCTS:	

Foretinib (Cat. No. 9476) EZSolution™ Dasatinib (Cat. No. 2029) Dasatinib (BMS-354825, Sprycel) (Cat. No. 1586) EZSolution™ Cerdulatinib (Cat. No. B2482) Regorafenib (Cat. No. 2891)

DISCLAIMER:

FOR RESEARCH USE ONLY! Not to be used on humans.