

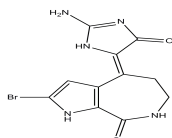
PRODUCT: 10Z-Hymenialdisine

ALTERNATE NAME: 4-(2-Amino-4-oxo-2-imidazolidin-5-ylidene)-2-bromo-4,5,6,7-tetrahydropyrrolo[2,3-c]azepin-8-one; Hymenialdisine

CATALOG #: 2212-250, 1000

AMOUNT: 500 µg, 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₁H₁₀BrN₅O₂

MOLECULAR WEIGHT: 324.13

CAS NUMBER: 82005-12-7

APPEARANCE: Yellow oil

SOLUBILITY: DMSO (5 mg/ml)

PURITY: ≥97% by HPLC

STORAGE: Store at -20 °C. Protect from air and light

DESCRIPTION: Isolated from sponge *Axinella carteri*. A potent inhibitor of mitogen-activated protein kinase kinase-1 (MEK-1) (IC₅₀ = 6 nM). Blocks the *in vivo* phosphorylation of the microtubule-binding protein tau at sites that are hyperphosphorylated by glycogen synthase kinase-β (GSK-3β) and CDK5/p35 in Alzheimer's disease. Inhibitor of DNA damage checkpoint at G2 phase (IC₅₀ = 6 µM), cyclin-dependent kinases CDK1/cyclin B (IC₅₀ = 22 nM), CDK2/cyclin A (IC₅₀ = 70 nM), CDK2/cyclin E (IC₅₀ = 40 nM), CDK4/cyclin D1 (IC₅₀ = 600 nM), CDK5/p25 (IC₅₀ = 28 nM), GSK-3β (IC₅₀ = 10 nM), and casein kinase 1 (CK1) (IC₅₀ = 35 nM).

RELATED PRODUCTS:

Alsterpaullone (Cat. No. 1897-1,5)
 Butyrolactone I (Cat. No. 1690-200)
 Doramapimod (Cat. No. 1954-5, 25)
 Flavopiridol (Cat. No. 2090-1, 5)
 Kenpaullone (Cat. No. 1904-1)
 PD1834352 (CI-1040) (Cat. No. 1585-1,5,25)
 EZSolution™ PD184352 (Cat. No. 1871-1)
 PD325901 (Cat. No. 1643-2, 5, 25)
 PD98059 (Cat. No. 1666-5)
 EZSolution™ PD98059 (Cat. No. 1783-5)
 RO-3306 (Cat. No. 2039-1,5)
 Roscovitine (Cat. No. 1950-1,5)
 SB 203580 (Cat. No. 1712-1, 5)
 EZSolution™ SB203580 (1786-1)
 Sorafenib (Cat. No. 1594-25, 100)
 TG003 (Cat. No. 1905-5, 25)
 7, 3', 4'-Trihydroxyisoflavone (1886-25, 100)
 U0126 (Cat. No. 1668-5)
 VX-702 (Cat. No. 1598-1,5)

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**