

Product Name : Pateamine A

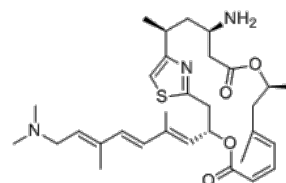
Synonyms : Pateamine

Cat No. : M11628

CAS Number : 139220-18-1

Molecular Formula : C₃₁H₄₅N₃O₄S

Formula Weight : 555.78



Chemical Name : 4,12-Dioxo-20-thia-21-azabicyclo[16.2.1]heneicosa-1(21),6,8,18-tetraene-5,13-dione, 15-amino-3-[(1E,3E,5E)-7-(dimethylamino)-2,5-dimethyl-1,3,5-heptatrienyl]-9,11,17-trimethyl-, (3S,6Z,8E,11S,15R,17S)- (9CI)

Description : Pateamine A (Pateamine) is a potent small molecule inhibitor of eukaryotic translation that stimulates eIF4AII and eIF4AIII activity, but not eIF4E, eIF2α, and eIF4B; inhibits protein synthesis showing an IC₅₀ of 5 nM in HeLa cells; prevents muscle wasting caused by IFNγ and TNFα or by C26-adenocarcinoma tumours in mice.

Pathway : Nuclear Receptor/Transcription Factor

Target : eIF

Receptor : eIF

Solubility : —

SMILES : CC1CC(CC(=O)OC(CC(=CC=CC(=O)OC(CC2=NC1=CS2)C=C(C)C=CC(=CCN(C)C)C)C)C)N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Bordeleau ME, et al. Proc Natl Acad Sci U S A. 2005 Jul 26;102(30):10460-5. | 2. Di Marco S, et al. Nat Commun. 2012 Jun 12;3:896. | 3. Popa A, et al. BMC Genomics. 2016 Jan 14;17:52.