Product Data Sheet

Product Name: BML-278
Cat. No.: GC18408

Chemical Properties

Cas. No.	120533-76-8		
Chemical Name	1,4-dihydro-4-phenyl-1-(phenylmethyl)-3,5-pyridinedicarboxylic acid, 3,5-diethyl ester		
SMILES	O=C(OCC)C1=CN(CC2=CC=CC=C2)C=C(C(OCC)=O)C1C3=CC=CC=C3		
Formula	$C_{24}H_{25}NO_4$	M.Wt	391.5
Solubility	DMF: 12.5 mg/ml,DMF:PBS (pH 7.2)(1:3): 0.25 mg/ml,DMSO: 3 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	BML-278		

Background

BML-278 is an activator of sirtuin 1 (SIRT1) that has an EC150 value (effective concentration able to increase the enzyme by 150%) of 1 uM. It less potently activates SIRT2 and SIRT3 (EC150s = 25 and 50 uM, respectively). BML-278 induces hypoacetylation on α-tubulin in U937 cells that are pretreated with SAHA , a histone deacetylase inhibitor. It arrests cell cycling at the G1/S phase, reduces senescence in primary human mesenchymal cells, and significantly increases mitochondrial density in murine C2C12 myoblasts.

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