

Product Name : Dorsomorphin
Synonyms : BML-275; Compound C; BML275; BML 275

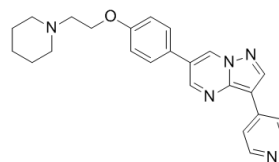
Cat No. : M16297

CAS Number : 866405-64-3

Molecular Formula : C₂₄H₂₅N₅O

Formula Weight : 399.50

Chemical Name : Pyrazolo[1,5-a]pyrimidine, 6-[4-[2-(1-piperidinyloxy)phenyl]-3-(4-pyridinyl)-



Description : Dorsomorphin (BML-275, Compound C) is a potent, selective and reversible AMPK inhibitor with K_i of 109 nM, shows no significant activity on ZAPK, SYK, PKCθ, PKA and JAK3; inhibits AMPK activation induced by AICAR and Metformin, also inhibits bone morphogenetic protein (BMP) type I receptors (ALK2, ALK3 and ALK6); promotes cardiomyogenesis in mouse embryonic stem cells (ESCs) in vitro, induces autophagy in cancer cell lines via a mechanism independent of AMPK inhibition.

Pathway : Membrane Transporter/Ion Channel

Target : AMPK

Receptor : AMPK

Solubility : 10 mM in DMSO

SMILES : C1CN(CCCCC1)OC(=C)C(C=C1)C1=CN2N=CC(=C2N=C1)C1=CC=NC=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Yu PB, et al. Nat Chem Biol. 2008 Jan;4(1):33-41. | 2. Vucicevic L, et al. Autophagy. 2011 Jan;7(1):40-50. | 3. Diekmann U, et al. Stem Cells Dev. 2015 Jan 15;24(2):190-204. | 4. Zhou G, et al. J Clin Invest. 2001 Oct;108(8):1167-74.