

Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name : Dorsomorphin
Cat. No. : PC-43522
CAS No. : 866405-64-3
Molecular Formula : C₂₄H₂₅N₅O
Molecular Weight : 399.49
Target : AMPK

Solubility : 10 mM in DMSO

Biological Activity

Dorsomorphin (BML-275, Compound C) is a potent, selective and reversible **AMPK** inhibitor with Ki of 109 nM, shows no no significant activity on ZAPK, SYK, PKC0, PKA and JAK3.

Dorsomorphin (BML-275, Compound C) inhibits AMPK activation induced by AICAR and Metformin, also inhibits bone morphogenetic protein (BMP) type I receptors (ALK2, ALK3 and ALK6).

Dorsomorphin (BML-275, Compound C) promotes cardiomyogenesis in mouse embryonic stem cells (ESCs) in vitro, induces autophagy in cancer cell lines via a mechanism independent of AMPK inhibition.

References

Yu PB, et al. *Nat Chem Biol.* 2008 Jan;4(1):33-41.

Vucicevic L, et al. *Autophagy*. 2011 Jan;7(1):40-50.

Diekmann U, et al. *Stem Cells Dev.* 2015 Jan 15;24(2):190-204.

Zhou G, et al. *J Clin Invest*. 2001 Oct;108(8):1167-74.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com