BioVision

Dorsomorphin

ALTERNATE NAME: 6-[4-(2-Piperidin-1-yl)-ethoxy)-phenyl)]-3-pyridin-4-yl-

pyrazolo[1,5-a]-pyrimidine; Compound C

CATALOG #: 1686-5

AMOUNT: 5 mg

STRUCTURE:

MOLECULAR FORMULA: C₂₄H₂₅N₅O

MOLECULAR WEIGHT: 399.49

CAS NUMBER: 866405-64-3

APPEARANCE: Light yellow solid

SOLUBILITY: DMSO (~4 mg/ml). May require sonication for complete

solubilization

PURITY: >98% by HPLC

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

DESCRIPTION: Cell-permeable. A potent, selective, reversible and ATP-

competitive inhibitor of AMP-activated protein kinase (AMPK) ($K_i = 109$ nM in the presence of 5 μ M ATP and no AMP). Does not affect the activity on several structurally related kinases including JAK3, PKA, PKC0, SYK and ZAPK. Also inhibits bone morphogenic protein (BMP) type I receptors (ALK2, ALK3 and ALK6). In addition, recently Dorsomorphin has shown to induce protective autophagy in cancer cells through AMPK inhibition-independent blockade of Akt/mTOR

pathway.

REFERENCES: 1. Yu, P.B., et al. (2008). Nat. Chem. Biol. 4, 33-41.

2. Kim, E.K., et al. (2004). J. Biol. Chem. 279, 19970.

HANDLING: Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- A 83-1 (Cat. No. 1725-1)
- SB-431542 (Cat. No. 1674-1)

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