



LKT Laboratories, Inc.

Dorsomorphin

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Product Information

Product ID D582703

CAS No. 866405-64-3

Chemical Name

Synonym BML-275; Compound C; 6-(4-(2-(Piperidin-1-yl)ethoxy)phenyl)-3-(pyridin-4-yl)pyrazolo[1,5-a]pyrimidine; AMPK inhibitor, compound C

Formula C₂₄H₂₅N₅O

Formula Wt. 399.50

Melting Point

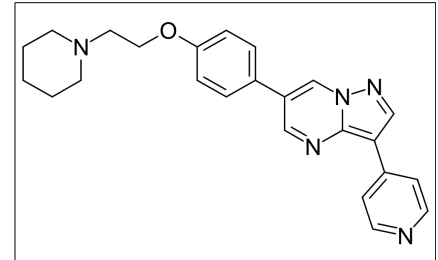
Purity ≥98%

Solubility

Store Temp 4° C

Ship Temp Ambient

Description Dorsomorphin is a selective and potent inhibitor of bone morphogenetic protein (BMP) through the receptors ALK2, ALK3, and ALK6. Inhibits AMPK, inducing autophagy in cancer cells. Shown to promote functional myogenesis along with LDN-193189.



Bulk quantities available upon request

Product ID	Size
D582703	5 mg
D582703	10 mg
D582703	25 mg

References Yu P., Hong C., et al. Dorsomorphin inhibits BMP signals required for embryogenesis and iron metabolism. *Nat Chem Biol.* 34 (1):33-41 (2008). PMID: 18026094.

Vucicevic L., Misirkic M., et al. Compound C induces protective autophagy in cancer cells through AMPK inhibition-independent blockade of Akt/mTOR pathway. *Autophagy.* 7(1):40-50 (2011). PMID: 20980833.

Horbelt D., Boergemann J., et al. Small molecules dorsomorphin and LDN-193189 inhibit myostatin/GDF8 signaling and promote functional myoblast differentiation. *J Biol Chem.* 290(6):3390-404 (2015). PMID: 25368322.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.