**Overview**

**Product name**
Dorsomorphin (Compound C)

**Description**
Potent, selective and reversible AMP-kinase inhibitor. Selective for BMP signaling.

**Biological description**
Potent, selective and reversible inhibitor of AMP-kinase ($K_i = 109$ nM). Inhibits AMPK activation induced by AICAR (ab120358) and metformin (ab120847). Selective inhibitor of bone morphogenetic protein (BMP) type I receptors (ALK2, ALK3 and ALK6). Does not affect ZAPK, SYK, PKCθ, PKA and JAK3. Cell-permeable. Also available in a water soluble form (Dorsomorphin dihydrochloride - ab144821)

**Purity**
> 99%

**Properties**

**Chemical name**
6-[4-[(2-(1-Piperidinyl)ethoxy]phenyl]-3-(4-pyridinyl)pyrazolo[1,5-a]pyrimidine

**Molecular weight**
399.49

**Chemical structure**

![Chemical structure](image)

**Molecular formula**
$C_{24}H_{25}N_5O$

**CAS Number**
866405-64-3

**PubChem identifier**
11524144

**Storage instructions**
Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**
Soluble in DMSO to 10 mM (with heating) and to ethanol to 5 mM (with heating)

**Handling**
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Please note that sonication in a 55 °C water bath is necessary for dissolution of ab120843 in DMSO to 10 mM.
Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES
c1c(nc2c(cnn12)c3ccncc3)c5ccc(OCCN4CCCCC4)cc5

Source
Synthetic

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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