

Catalog	Unit
TBI1029 - 5MG	5 mg
TBI1029 - 25MG	25 mg

### Product Details

**Formal Name:** 6-[4-[2-(1-Piperidinyl)ethoxy]phenyl]-3-(4-pyridinyl)-pyrazolo[1,5-a]pyrimidine.

**Alternate Name:** Compound C.

**Molecular Formula:** C<sub>24</sub>H<sub>25</sub>N<sub>5</sub>O.

**Formula Weight:** 399.49.

**CAS Number:** 866405-64-3

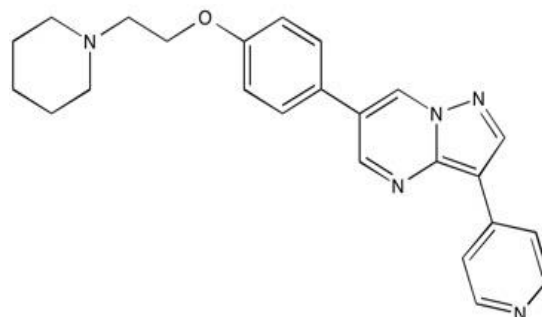
**Purity:** ≥98%

**Formulation:** Powder.

**Solubility:** Soluble in DMSO (up to 3 mg/ml).

**Storage:** -20°C.

**Stability:** ≥ 2 years.



### Applications

AMPK inhibitor.

### Functions

Dorsomorphin is a potent, selective, and ATP-competitive inhibitor of AMP-activated protein kinase (AMPK) ( $K_i = 109$  nM). It displays no significant inhibition of ZAPK, SYK, PKCT, PKA and JAK3. It inhibits bone morphogenetic protein (BMP) type I receptors (ALK2, ALK3 and ALK6). Dorsomorphin has been shown to promote cardiomyogenesis in mouse embryonic stem cells (ESCs) in vitro. Dorsomorphin induces autophagy in cancer cell lines via a mechanism independent of AMPK inhibition.

### Application Procedures

Dorsomorphin can be first dissolved in DMSO (up to 3 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

### Relative Products

TBI1092	AICAR, AMPK activator
TBI12069	Cytochalasin B
TBI2073	Forskolin, Adenylate cyclase activator
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI1126	Vinpocetine, PDE1 Inhibitor
TBI2657	Roflumilast, PDE4 Inhibitor
TBI1319	BML-288, PDE2 Inhibitor
TBI2584	Cilostamide, PDE3 Inhibitor
TBI1131	Cilostazol, PDE3A Inhibitor

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