

Product Data Sheet

Product Name: BUR1
Cat. No.: GC72917

Chemical Properties

Cas. No. 23000-46-6

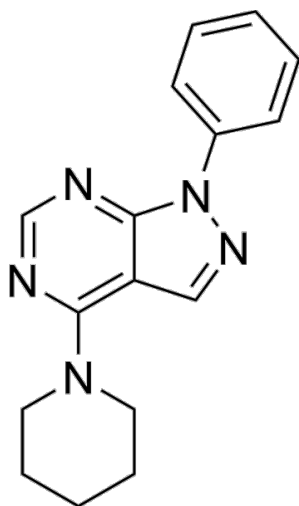
Formula $C_{16}H_{17}N_5$ M.Wt 279.34

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

BUR1 is a BMP upregulator (EC_{50} : 98 nM) and activates BMPRII signalling. BUR1 induces BMP2 and PTGS2 expression. BUR1 reversed pulmonary arterial pressure in Monocrotaline induced rats.

BUR1 (0.2 μM , 15 min-24 h) increases expression of Inhibitor of DNA binding 1 (Id1) and phosphorylation of Smad1/5 in PAECs[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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BUR1 (4.5 mg/day, i.g., 3 weeks) reverses MCT-induced pulmonary arterial pressure and right ventricular systolic pressure in rats[1].

References:

[1]. Xing Y, et al. A novel piperidine identified by stem cell-based screening attenuates pulmonary arterial pertension by regulating BMP2 and PTGS2 levels. Eur Respir J. 2018 Apr 4;51(4):1702229.

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