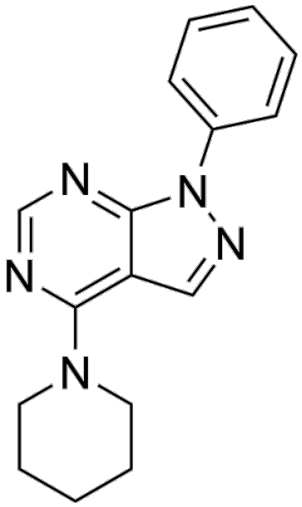
Product Data Sheet

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°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°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 (EC50: 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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