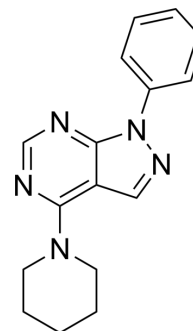


BUR1

Cat. No.:	HY-121025
CAS No.:	23000-46-6
Molecular Formula:	C ₁₆ H ₁₇ N ₅
Molecular Weight:	279.34
Target:	TGF-β Receptor
Pathway:	TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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 (HY-N0750) induced rats ^[1] .
In Vitro	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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BUR1 (4.5 mg/day, i.g., 3 weeks) reverses MCT-induced pulmonary arterial pressure and right ventricular systolic pressure in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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

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