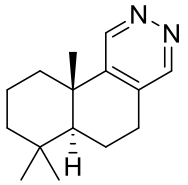
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Polygodial pyridazine

Code No.: **BIA-P1773**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	:	**1810726-08-9**
Molecular Formula	:	**$C_{15}H_{22}N_2$**
Molecular Weight	:	**230.4**
Source	:	**Semi-synthetic**
Appearance	:	**Cream solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Polygodial pyridazine is a semi-synthetic derivative using the sesquiterpene dialdehyde, polygodial, as a scaffold. In contrast to polygodial, the pyridazine derivative is a poor inhibitor of Na+/K+-ATPase. Polygodial itself has antibiotic, antifungal, anti-insectan, cytotoxic, anti-inflammatory and glucocorticoid activities.

References

1. Practical isolation of polygodial from Tasmannia lanceolata: a viable scaffold for synthesis. Just J. et al., Org. Biomol. Chem. 2015, 13, 11200.
2. Effect of polygodial and its direct derivatives on the mammalian Na + /K + -ATPase activity. Garcia D.G. et al., Eur. J. Pharmacol. 2018, 831, 1.
3. Structural requirements for the antifungal activities of natural drimane sesquiterpenes and analogues, supported by conformational and electronic studies. Derita M. et al., Molecules 2013, 18, 2029.

Updated: 24 May 2019

Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com