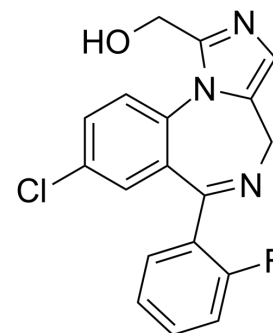


1'-Hydroxymidazolam

Cat. No.:	HY-118645
CAS No.:	59468-90-5
Molecular Formula:	C ₁₈ H ₁₃ ClFN ₃ O
Molecular Weight:	341.77
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	1'-Hydroxymidazolam is a primary active metabolite of Midazolam, and it is a neuronal depressant agent. 1'-Hydroxymidazolam could inhibit neuronal activity add to the effects of Midazolam ^{[1][2]} .
In Vitro	1'-Hydroxymidazolam (5 nM-1 μM) induces a significant inhibition of the action potential firing rate at concentrations of 100 nM or higher and causes a steady increase in the depression of network activity with increasing concentrations of up to 1 μM in neocortical slice cultures from wild-type mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hasegawa T, et, al. Increase in the systemic exposure of primary metabolites of Midazolam in rat arising from CYP inhibition or hepatic dysfunction. Drug Metab Pharmacokinet. 2017 Feb; 32(1): 69-76.
- [2]. Balk M, et, al. Differential depression of neuronal network activity by midazolam and its main metabolite 1-hydroxymidazolam in cultured neocortical slices. Sci Rep. 2017 Jun 14; 7(1): 3503.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA