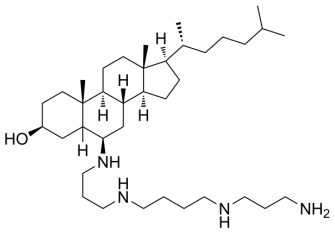
Claramine

Cat. No.:	HY-160791
CAS No.:	1430194-56-1
Molecular Formula:	$C_{37}H_{72}N_4O$
Molecular Weight:	588.99
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Claramine is a steroid polyamine with blood-brain barrier permeability. Claramine can regulate the properties of lipid membranes and protect cells from various biological toxins, including misfolded protein oligomers and biological protein-based toxins[1].
In Vitro	Claramine (2-20 μM; 20 h) does not affect cell viability in human neuroblastoma cells (SH-SY5Y) at concentrations below 10 μM. Similarly, Claramine (2-20 μM; 20 h) does not impact cell activity in HEK293 cells[1]. Claramine (2.5-10 μM; 20 h) protects human neuroblastoma (SH-SY5Y) cells from the harmful effects of pore-forming agents, melittin (HY-P0233) (4 μM; 20 h) and α-hemolysin (50 μg/mL; 20 h), by inhibiting their binding to cell membranes[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kreiser RP, et al. A Brain-Permeable Aminosterol Regulates Cell Membranes to Mitigate the Toxicity of Diverse Pore-Forming Agents. ACS Chem Neurosci. 2022;13(8):1219-1231.

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