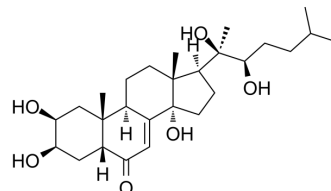


Ponasterone A

Cat. No.:	HY-N1534
CAS No.:	13408-56-5
Molecular Formula:	C ₂₇ H ₄₄ O ₆
Molecular Weight:	464.63
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ponasterone A (25-Deoxyecdysterone), an ecdysteroid, has strong affinity for the ecdysone receptor. Ponasterone A is a potent regulator of gene expression in cells and transgenic animals, enabling reporter genes to be turned on and off rapidly [1][2].
IC₅₀ & Target	ecdysone receptor ^[2]
In Vitro	Ponasterone A (1 nM-100 μM) shows significant gene induction activity in CV-1 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ponasterone A (3-10 mg; i.p.) produces robust inductions of gene expression in transactivator and reporter mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hansen KØ, et, al. Ponasterone A and F, Ecdysteroids from the Arctic Bryozoan Alcyonidium gelatinosum. *Molecules*. 2018 Jun 19;23(6):1481.
- [2]. Gu Y, et, al. Evidence that collapsin response mediator protein-2 is involved in the dynamics of microtubules. *J Biol Chem*. 2000 Jun 16;275(24):17917-20.

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

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