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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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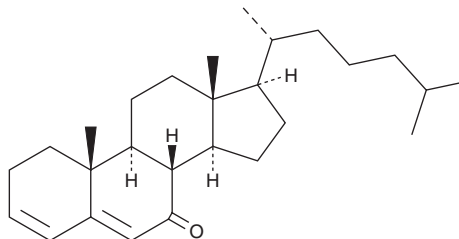
PRODUCT INFORMATION



CAY10787

Item No. 34320

CAS Registry No.: 567-72-6
Formal Name: cholesta-3,5-dien-7-one
Synonyms: $\Delta^{3,5}$ -Cholestadien-7-one, CSD,
NSC 18180, NSC 134914
MF: C₂₇H₄₂O
FW: 382.6
Purity: $\geq 95\%$
UV/Vis.: λ_{\max} : 278 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CAY10787 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10787 in the solvent of choice, which should be purged with an inert gas. CAY10787 is soluble in the organic solvent chloroform at a concentration of approximately 10 mg/ml.

Description

CAY10787 is an oxysterol and a negative allosteric modulator of GABA_A receptors.^{1,2} It reduces GABA-induced currents in HEK cells expressing $\alpha_1\beta_1\gamma_2$ or $\alpha_4\beta_3\gamma_2$ subunit-containing GABA_A receptors (IC_{50} s = 1.5 and 1 μ M, respectively).² CAY10787 (500 nM) reduces GABA-induced depolarization of peptidergic and non-peptidergic nociceptors, C-LTMRs, and cold thermosensors in isolated mouse dorsal root ganglion (DRG) neurons. *In vivo*, CAY10787 (2, 10, and 50 mg/kg) increases latency to nociceptive behaviors in the hot plate test in mice.

References

1. Hahn, M., Tang, M., and Subbiah, M.T. Cholest-3,5-dien-7-one formation in peroxidized human plasma as an indicator of lipoprotein cholesterol peroxidation potential. *Biochim. Biophys. Acta* **1255**(3), 341-343 (1995).
2. Niu, C., Leavitt, L.S., Lin, Z., *et al.* Neuroactive type-A γ -aminobutyric acid receptor allosteric modulator steroids from the hypobranchial gland of marine mollusk, *Conus geographus*. *J. Med. Chem.* **64**(10), 7033-7043 (2021).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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