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Solasodine hydrochloride

Cat. No.: HY-W751400

CAS No.: 6106-33-8

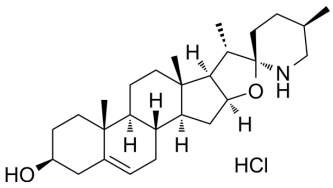
Molecular Formula: $C_{27}H_{44}ClNO_2$

Molecular Weight: 450.1

Target: MDM-2/p53; E1/E2/E3 Enzyme; Fungal; Apoptosis

Pathway: Apoptosis; Metabolic Enzyme/Protease; Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Solasodine (Purapuridine) hydrochloride is a steroidal alkaloid that occurs in plants of the Solanaceae family. Solasodine hydrochloride induces apoptosis by inhibiting the p53-MDM2 complex, p21Waf1/Cip1, and Bcl-2 proteins. Solasodine hydrochloride has neuroprotective, antifungal, hypotensive, anticancer, antiatherosclerotic, antiandrogenic and anti-inflammatory activities[1][2][3].

In Vitro

Solasodine (90 μM; 2 days) hydrochloride treatment displays significant sprouting in P19 cells. Solasodine hydrochloride induces strong expression of the different neuronal markers studied, including βIII-tubulin, synaptophysin, MAP2, ChAT, and neuroblast marker doublecortin. Solasodine hydrochloride induces the differentiation of P19 cells, essentially towards the neuronal pathway[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Solasodine (25-100 mg/kg; intraperitoneal injection; once) hydrochloride treatment significantly delays latency of hind limb tonic extensor (HLTE) phase in the PCT-induced convulsions. And significantly potentiates Thiopental-provoked sleep in a dose-dependent manner. Solasodine hydrochloride has anticonvulsant and CNS depressant activities[2].

Solasodine (375 μM; i.c.v.; for 2 weeks) hydrochloride treatment results a significant increase in bromodeoxyuridine uptake by cells of the ependymal layer, subventricular zone, and cortex that co-localized with doublecortin immunostaining. Solasodine hydrochloride treatment in rats results in a dramatic increase in expression of the cholesterol- and drug-binding translocator protein in ependymal cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Swiss albino mice (18-25 g) treated with Picrotoxin (PCT) or Thiopental[2]
Dosage:	25 mg/kg, 50 mg/kg and 100 mg/kg
Administration:	Intraperitoneal injection; once
Result:	Significantly delayed latency of hind limb tonic extensor (HLTE) phase in the PCT-induced convulsions. And significantly potentiated Thiopental-provoked sleep in a dose-dependent manner.

CUSTOMER VALIDATION

- bioRxiv. 2023 Jun 3.
- Drug Res. 2022 Jun 20.

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REFERENCES

[1]. Lecanu L, et al. The naturally occurring steroid solasodine induces neurogenesis in vitro and in vivo. Neuroscience. 2011 Jun 2;183:251-64.

[2]. Akhtar S, et al. Evaluation and Elucidation Studies of Natural Aglycones for Anticancer Potential using Apoptosis-Related Markers: An In silico Study. Interdiscip Sci. 2018 Jun;10(2):297-310.

[3]. Akhtar S, et al. Evaluation and Elucidation Studies of Natural Aglycones for Anticancer Potential using Apoptosis-Related Markers: An In silico Study. Interdiscip Sci. 2018 Jun;10(2):297-310.

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