

Solasodine

Cat. No. ALK-0076

Lot. No. (See product label)

Product Name

Solasodine

CAS No.

126-17-0

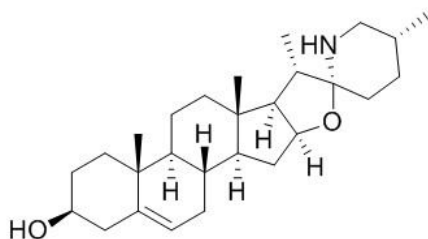
Synonyms

Purapuridine; Solancarpidine; Solasodin

Description

Solasodine (Purapuridine) is a steroidal alkaloid that occurs in plants of the Solanaceae family. Solasodine has neuroprotective, antifungal, hypotensive, anticancer, antiatherosclerotic, antiandrogenic and anti-inflammatory activities.

Structural Formula



MW

413.64

MF

C₂₇H₄₃NO₂

Purity

>98.0%

Appearance

Solid

Solubility

DMSO : 2.6 mg/mL(6.29 mM;Need ultrasonic) H₂O : 0.67 mg/mL(1.62 mM;Need ultrasonic)

Source

Plants >Solanaceae > Solanum nigrumLinn.

Shipping

Room temperature in continental US; may vary elsewhere.

SMILES

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C[C@H](CC1)CN[C@]21O[C@@]3([H])C[C@@]4([H])[C@]5([H])CC=C6C[C@@H](O)CC[C@]6(C)[C@@]5([H])CC[C@]4(C)[C@@]3([H])[C@@H]2C
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In Vivo

Solasodine (25-100 mg/kg; intraperitoneal injection; once) treatment significantly delays latency of hind limb tonic

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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extensor (HLTE) phase in the PCT-induced convulsions. And significantly potentiates Thiopental-provoked sleep in a dose-dependent manner. Solasodine has anticonvulsant and CNS depressant activities. Solasodine (375 μ M; i.c.v.; for 2 weeks) 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 treatment in rats results in a dramatic increase in expression of the cholesterol- and drug-binding translocator protein in ependymal cells.

In Vitro

Solasodine (90 μ M; 2 days) treatment displays significant sprouting in P19 cells. Solasodine induces strong expression of the different neuronal markers studied, including β III-tubulin, synaptophysin, MAP2, ChAT, and neuroblast marker doublecortin. Solasodine induces the differentiation of P19 cells, essentially towards the neuronal pathway. Solasodine induce apoptosis by inhibiting the p53-MDM2 complex, p21Waf1/Cip1, and Bcl-2 proteins.

Storage

4°C, protect from light

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