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Lieferung & Zahlungsart

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Atractyloside potassium salt

Cat. No.: HY-N1462

CAS No.: 102130-43-8

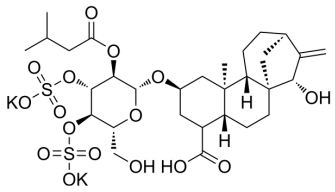
Molecular Formula: $C_{30}H_{44}K_2O_{16}S_2$

Molecular Weight: 802.99

Target: Chloride Channel

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (311.34 mM; Need ultrasonic)
H_2O : 66.67 mg/mL (83.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2453 mL	6.2267 mL	12.4535 mL
	5 mM	0.2491 mL	1.2453 mL	2.4907 mL
	10 mM	0.1245 mL	0.6227 mL	1.2453 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 50 mg/mL (62.27 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (2.59 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (2.59 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (2.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Atractyloside potassium salt is a toxic diterpenoid glycoside that can be isolated from the fruits of Xanthium sibiricum. Atractyloside potassium salt is a powerful and specific inhibitor of mitochondrial ADP/ATP transport. Atractyloside potassium salt inhibits chloride channels from mitochondrial membranes of rat heart[1][2][3].

CUSTOMER VALIDATION

- Bioengineered. 2022 Jan;13(1):1320-1334.
- Membranes. 2023, 13(1), 63.

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REFERENCES

[1]. Nikles S, et al. Influence of Processing on the Content of Toxic Carboxyatractyloside and Atractyloside and the Microbiological Status of Xanthium sibiricum Fruits (Cang'erzi). Planta Med. 2015 Aug;81(12-13):1213-20.

[2]. Lemasters JJ, et al. Phosphate dependence and atractyloside inhibition of mitochondrial oxidative phosphorylation. The ADP-ATP carrier is rate-limiting. J Biol Chem. 1979 Feb 25;254(4):1248-51.

[3]. Malekova L, et al. Bongkrekic acid and atractyloside inhibits chloride channels from mitochondrial membranes of rat heart. Biochim Biophys Acta. 2007 Jan;1767(1):31-44.

[4]. Malekova L, et al. Bongkrekic acid and atractyloside inhibits chloride channels from mitochondrial membranes of rat heart. Biochim Biophys Acta. 2007 Jan;1767(1):31-44.

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