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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Poliumoside

Cat. No.: HY-N0033

CAS No.: 94079-81-9

Molecular Formula: $C_{35}H_{46}O_{19}$

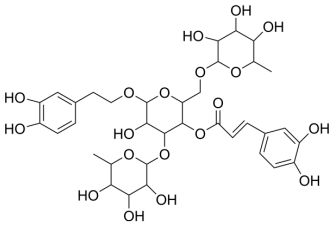
Molecular Weight: 770.73

Target: Aldose Reductase

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (129.75 mM; Need ultrasonic)
Ethanol : 50 mg/mL (64.87 mM; Need ultrasonic)
H_2O : 50 mg/mL (64.87 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	1.2975 mL	6.4874 mL	12.9747 mL
5 mM	0.2595 mL	1.2975 mL	2.5949 mL
10 mM	0.1297 mL	0.6487 mL	1.2975 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.24 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.24 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Poliumoside, a caffeoylated phenylpropanoid glycoside, is isolated from Brandisia hancei stems and leaves. Poliumoside is an advanced glycation end product (AGE) formation and rat lens aldose reductase (RLAR) inhibitor, with IC_{50}s of 19.69 and 8.47 μM, respectively. Poliumoside also has antiinflammatory and antioxidant activity[1][2][3].

IC_{50} & Target

IC50: 8.47 μM (aldose reductase)[1]

In Vitro	Poliumoside inhibits AGE formation and RLAR, with IC_{50}s of 19.69, and 8.47 μM, respectively[1]. Poliumoside (5-30 μM; 3 h) inhibits AAPH-induced hemolysis of rat red blood cells in vitro[2]. Poliumoside (12.5-100 μM; pretreated 2 h) inhibits the release of TNF-α and IL-6 in LPS-induced RAW 264.7 cells[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Poliumoside inhibits vessel dilation in larval zebrafish[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Microbiol Spectr. 2023 Sep 21;e0267123.

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REFERENCES

[1]. Yu SY, et al. Caffeoylated phenylpropanoid glycosides from Brandisia hancei inhibit advanced glycation end product formation and aldose reductase in vitro and vessel dilation in larval zebrafish in vivo. Planta Med. 2013 Dec;79(18):1705-9.

[2]. He ZD, et, al. Antioxidant activity of phenylethanoid glycosides from Brandisia hancei. J Ethnopharmacol. 2000 Aug;71(3):483-6.

[3]. Wu A, et, al. Natural phenylethanoid glycosides isolated from Callicarpa kwangtungensis suppressed lipopolysaccharide-mediated inflammatory response via activating Keap1/Nrf2/HO-1 pathway in RAW 264.7 macrophages cell. J Ethnopharmacol. 2020 Aug 10;258:112857.

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