Luteolinidin chloride

Cat. No.: HY-129997

CAS No.: 1154-78-5

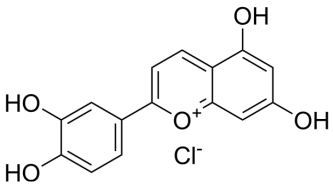
Molecular Formula: $C_{15}H_{11}ClO_5$

Molecular Weight: 306.7

Target: CD38

Pathway: Immunology/Inflammation

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 : 50 mg/mL (163.03 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.2605 mL	16.3026 mL	32.6051 mL
5 mM	0.6521 mL	3.2605 mL	6.5210 mL
10 mM	0.3261 mL	1.6303 mL	3.2605 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Luteolinidin is a natural deoxyanthocyanidin, isolated from Sorghum bicolor [1]. Luteolinidin is a potent CD38 inhibitor which can protect the heart against I/R injury with preservation of eNOS function and prevention of endothelial dysfunction in vivo[2].

IC_{50} & Target

Ki: 11 μM (CD 38)[2]

REFERENCES

[1]. Maria JoãoMelo, et al. Photochemistry of luteolinidin: “Write-lock-read-unlock-erase” with a natural compound. Journal of Photochemistry and Photobiology A: Chemistry

[2]. Boslett J, et al. Luteolinidin Protects the Postischemic Heart through CD38 Inhibition with Preservation of NAD(P)(H). J Pharmacol Exp Ther. 2017 Apr;361(1):99-108.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA