Tamarixetin

Cat. No.: HY-N1181

CAS No.: 603-61-2

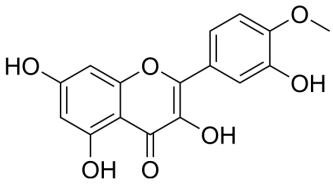
Molecular Formula: $C_{16}H_{12}O_7$

Molecular Weight: 316.26

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (158.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1620 mL	15.8098 mL	31.6196 mL
	5 mM	0.6324 mL	3.1620 mL	6.3239 mL
	10 mM	0.3162 mL	1.5810 mL	3.1620 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 (7.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tamarixetin (4'-O-Methyl Quercetin) is a natural flavonoid derivative of quercetin, with anti-oxidative and anti-inflammatory effects. Tamarixetin protects against cardiac hypertrophy[1][2].

REFERENCES

[1]. Fan C, et al. Tamarixetin protects against cardiac hypertrophy via inhibiting NFAT and AKT pathway. J Mol Histol. 2019 Aug;50(4):343-354.

[2]. Park HJ, et al. Tamarixetin Exhibits Anti-inflammatory Activity and Prevents Bacterial Sepsis by Increasing IL-10 Production. J Nat Prod. 2018 Jun 22;81(6):1435-1443.

Caution: Product has not been fully validated for medical applications. For research use only.

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