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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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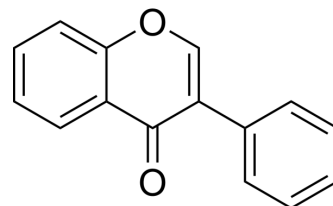
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Isoflavone

Cat. No.:	HY-W006405
CAS No.:	574-12-9
Molecular Formula:	C ₁₅ H ₁₀ O ₂
Molecular Weight:	222.24
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
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 (449.96 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		4.4996 mL	22.4979 mL	44.9958 mL
		5 mM		0.8999 mL	4.4996 mL	8.9992 mL
		10 mM		0.4500 mL	2.2498 mL	4.4996 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 (11.25 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.25 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Isoflavone is an orally available bioactive component of soy phytoestrogen with lipid-lowering and antioxidant activities. Isoflavone prevents a variety of chronic diseases by regulating fatty acid oxidation in the liver and gene expression in adipose tissue. In addition, isoflavone has important value in the research of cancer and cardiovascular diseases ^{[1][2][3]} .	
In Vivo	Isoflavone (2.5 and 5 mg/kg; p.o.; administered every other day for 13 weeks) reduces serum lipid levels and exerts anti-lipid oxidation properties in male New Zealand white rabbits^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male New Zealand white rabbits with an initial body weight of 2850 g ^[2]

Dosage:	2.5 and 5 mg/kg
Administration:	Oral gavage (p.o.); Administer once every other day for 13 weeks
Result:	Reduced plasma total lipid (TL) levels by 16% and 19%, total cholesterol levels by 20% and 20%, triglyceride (TG) levels by 18% and 23%, low-density lipoprotein (LDL) levels by 19% and 22%, very low-density lipoprotein (VLDL) levels by 18% and 23%, LDL:HDL ratios by 36% and 39%, and high-density lipoprotein (HDL) levels by 29% and 32% at doses of 2.5 and 5 mg/kg, respectively.

REFERENCES

- [1]. Yousef, et al. "Antioxidant activities and lipid lowering effects of isoflavone in male rabbits." Food and chemical toxicology 42.9 (2004): 1497-1503.
- [2]. Takahashi Y, et al. Effects of soy protein and isoflavone on hepatic fatty acid synthesis and oxidation and mRNA expression of uncoupling proteins and peroxisome proliferator-activated receptor gamma in adipose tissues of rats. J Nutr Biochem. 2008;19(10):682-693.
- [3]. Isoflavone.

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

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