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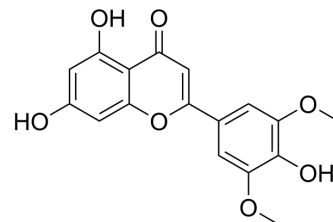
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Tricin

Cat. No.:	HY-N1127
CAS No.:	520-32-1
Molecular Formula:	C ₁₇ H ₁₄ O ₇
Molecular Weight:	330.29
Target:	CMV
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (378.46 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	3.0276 mL	15.1382 mL	30.2764 mL	
		5 mM	0.6055 mL	3.0276 mL	6.0553 mL	
	10 mM	0.3028 mL	1.5138 mL	3.0276 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: ≥ 2.08 mg/mL (6.30 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tricin is a natural flavonoid found in large amounts in wheat. Tricin inhibits HCMV replication by inhibiting CDK9. Tricin inhibits the proliferation and invasion of C6 glioma cells by upregulating the expression of FAK-targeting microRNA-7 ^{[1][2][3][1][2][3][4][5]} .
In Vitro	Tricin decreases the expression of haemagglutinin (HA) protein and matrix (M) protein, and messenger RNA expression of HA and M of influenza virus in infected Madin-Darby canine kidney (MDCK) cells ^[4] . Tricin (3.3-30 μM; 8 h) significantly reduces seasonal A (H1N1), (H3N2) viruses, novel A (H1N1pdm) viruses, and B viruses in a dose-dependent manner ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Tricin (50-250 ppm diet; 15 weeks) significantly lowers the numbers of adenocarcinomas and total tumors in mice ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Pharmacol Res. 2021 Sep;171:105574.
- Pharmacol Res. 2021, 105574.

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REFERENCES

- [1]. Itoh A, et al. Tricin inhibits the CCL5 induction required for efficient growth of human cytomegalovirus. Microbiol Immunol. 2018 May;62(5):341-347.
- [2]. Sadanari H, et al. The anti-human cytomegalovirus drug tricin inhibits cyclin-dependent kinase 9. FEBS Open Bio. 2018 Feb 20;8(4):646-654.
- [3]. Chung DJ, et al. Inhibition of the Proliferation and Invasion of C6 Glioma Cells by Tricin via the Upregulation of Focal-Adhesion-Kinase-Targeting MicroRNA-7. J Agric Food Chem. 2018 Jul 5;66(26):6708-6716.
- [4]. Yazawa K, et al. Anti-influenza virus activity of tricin, 4',5,7-trihydroxy-3',5'-dimethoxyflavone. Antivir Chem Chemother. 2011 Aug 23;22(1):1-11.
- [5]. Oyama T, et al. Dietary tricin suppresses inflammation-related colon carcinogenesis in male Crj: CD-1 mice. Cancer Prev Res (Phila). 2009 Dec;2(12):1031-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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