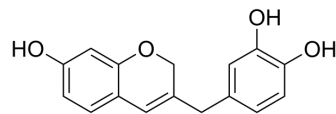


## 7,3',4'-Trihydroxy-3-benzyl-2H-chromene

Cat. No.:	HY-N2735
CAS No.:	1111897-60-9
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight:	270.28
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (369.99 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.6999 mL	18.4993 mL	36.9987 mL
	5 mM	0.7400 mL	3.6999 mL	7.3997 mL
	10 mM	0.3700 mL	1.8499 mL	3.6999 mL

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

### BIOLOGICAL ACTIVITY

#### Description

7,3',4'-Trihydroxy-3-benzyl-2H-chromene is a reversible noncompetitive neuraminidase (NA) inhibitor. 7,3',4'-Trihydroxy-3-benzyl-2H-chromene can be isolated from the dried heartwood of *Caesalpinia sappan* L. 7,3',4'-Trihydroxy-3-benzyl-2H-chromene has potent NAs inhibitory activities with IC<sub>50</sub> values of 34.6 μM [H1N1], 39.5 μM [H3N2], and 50.5 μM [H9N2], respectively. 7,3',4'-Trihydroxy-3-benzyl-2H-chromene can be used for the research of influenza virus<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 34.6 μM [H1N1], 39.5 μM [H3N2], and 50.5 μM [H9N2]<sup>[1]</sup>.

#### In Vitro

7,3',4'-Trihydroxy-3-benzyl-2H-chromene (Compound 11) has potent NAs inhibitory activities with IC<sub>50</sub> values of 34.6 μM [H1N1], 39.5 μM [H3N2], and 50.5 μM [H9N2], respectively<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Hyung Jae Jeong, et al. Homoisoflavonoids from *Caesalpinia sappan* displaying viral neuraminidases inhibition. *Biol Pharm Bull.* 2012;35(5):786-90.

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

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