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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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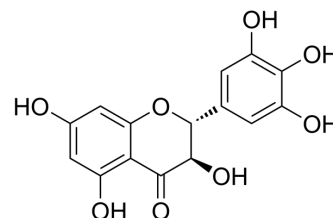
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Dihydromyricetin (Standard)

Cat. No.:	HY-N0112R
CAS No.:	27200-12-0
Molecular Formula:	C ₁₅ H ₁₂ O ₈
Molecular Weight:	320.25
Target:	mTOR; Autophagy; Influenza Virus; DNA/RNA Synthesis
Pathway:	PI3K/Akt/mTOR; Autophagy; Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dihydromyricetin (Standard) is the analytical standard of Dihydromyricetin. This product is intended for research and analytical applications. Dihydromyricetin is a potent inhibitor with an IC₅₀ of 48 μM on dihydropyrimidinase. Dihydromyricetin can activate autophagy through inhibiting mTOR signaling. Dihydromyricetin suppresses the formation of mTOR complexes (mTORC1/2). Dihydromyricetin is also a potent influenza RNA-dependent RNA polymerase inhibitor with an IC₅₀ of 22 μM.
IC ₅₀ & Target	IC₅₀: 48 μM (dihydropyrimidinase)^[1] mTORC1/2^[3]

REFERENCES

- [1]. Huang CY. Inhibition of a Putative Dihydropyrimidinase from *Pseudomonas aeruginosa* PAO1 by Flavonoids and Substrates of Cyclic Amidohydrolases. *PLoS One*. 2015 May 19;10(5):e0127634.
- [2]. Kou X, et al. Ampelopsin attenuates brain aging of D-gal-induced rats through miR-34a-mediated SIRT1/mTOR signaling pathway. *Oncotarget*. 2016 Nov 15;7(46):74484-74495.
- [3]. Chang H, et al. Ampelopsin suppresses breast carcinogenesis by inhibiting the mTOR signalling pathway. *Carcinogenesis*. 2014 Aug;35(8):1847-54.
- [4]. Václav Zima, et al. Unraveling the Anti-Influenza Effect of Flavonoids: Experimental Validation of Luteolin and its Congeners as Potent Influenza Endonuclease Inhibitors. *Eur J Med Chem*. 22 August 2020, 112754.

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

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