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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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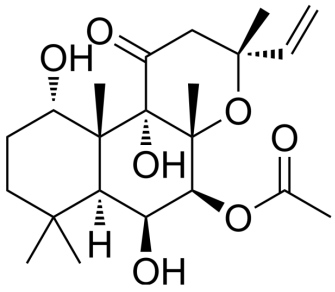
Forskolin (Standard)

Cat. No.:	HY-15371R
CAS No.:	66575-29-9
Molecular Formula:	$C_{22}H_{34}O_7$
Molecular Weight:	410.5
Target:	Organoid; Autophagy; Adenylate Cyclase; FXR; PKC
Pathway:	Stem Cell/Wnt; Autophagy; GPCR/G Protein; Metabolic Enzyme/Protease; Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Forskolin (Standard) is the analytical standard of Forskolin. This product is intended for research and analytical applications. Forskolin (Coleonol) is a potent adenylate cyclase activator with an IC_{50} of 41 nM and an EC_{50} of 0.5 μM for type I adenylyl cyclase[1]. Forskolin is also an inducer of intracellular cAMP formation[2]. Forskolin induces differentiation of various cell types and activates pregnane X receptor (PXR) and FXR[3]. Forskolin exerts a inotropic effect on the heart, and has platelet antiaggregatory and antihypertensive actions. Forskolin also induces autophagy[4][5].
IC_{50} & Target	IC50: 41 nM (Adenylyl cyclase)[1] EC50: 0.5 μM (Adenylyl cyclase)[1]

REFERENCES

[1]. Robbins JD, et al. Forskolin carbamates: binding and activation studies with type I adenylyl cyclase. J Med Chem. 1996 Jul 5;39(14):2745-52.

[2]. Matsumiya W, et al. Forskolin modifies retinal vascular development in Mrp4-knockout mice. Invest Ophthalmol Vis Sci. 2012 Dec 7;53(13):8029-35.

[3]. Mayati A, et al. Functional polarization of human hepatoma HepaRG cells in response to forskolin. Sci Rep. 2018 Oct 31;8(1):16115.

[4]. Awad JA, et al. Interactions of forskolin and adenylate cyclase. Effects on substrate kinetics and protection against inactivation by heat and N-ethylmaleimide. J Biol Chem. 1983 Mar 10;258(5):2960-5.

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[6]. Ríos-Silva M, et al. Effect of chronic administration of forskolin on glycemia and oxidative stress in rats with and without experimental diabetes. Int J Med Sci. 2014 Mar 11;11(5):448-52.

[7]. Rodriguez G, et al. Forskolin-inducible cAMP pathway negatively regulates T-cell proliferation by uncoupling the interleukin-2 receptor complex. J Biol Chem. 2013 Mar 8;288(10):7137-46.

[8]. Amrita Datta, et al. High-throughput screening identified selective inhibitors of exosome biogenesis and secretion: A drug repurposing strategy for advanced cancer. Sci Rep. 2018 May 25;8(1):8161.

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

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