Forskolin

Adenylate cyclase activator

Forskolin is naturally produced by the Coleus plant, *Coleus forskohlii*. Forskolin activates adenylate cyclase by directly interacting with the catalytic unit of the enzyme leading to an increase in the intracellular concentration of cAMP. Forskolin is a widely used tool for the investigation of the role of cAMP as a second messenger with a broad range of potential therapeutic applications. Forskolin is a ionotropic agent and vasodilator. Forskolin also reduces platelet aggregation in a dose-dependent manner, inhibits ion channels by a mechanism that does not involve cAMP, inhibits nicotinic acetylcholine receptors and induces neuronal differentiation in stem cells and several neuroblastoma.

Citations: 45 View Online »

Ordering Information

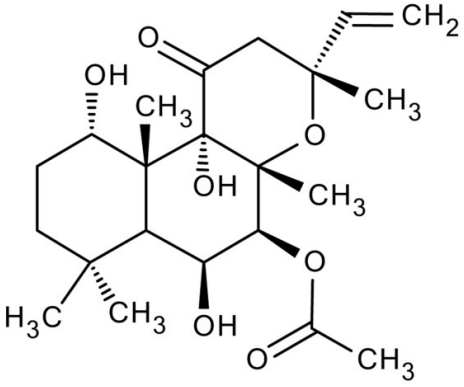
Order Online »

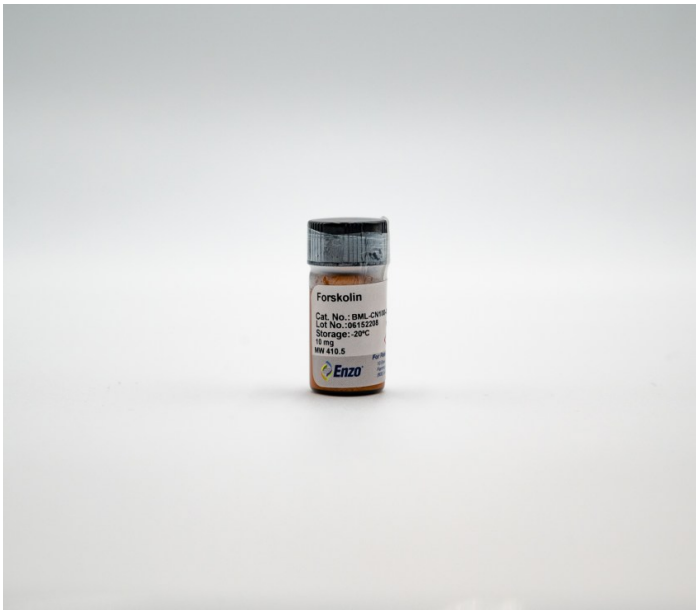
BML-CN100-0010	10mg
BML-CN100-0100	100mg

Manuals, SDS & CofA

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- Cell-permeable, potent, reversile, and rapid activator of adenylate cyclase
- Compound used to study the role of cAMP as secondary messenger
- Highly cited


CH2
O
OH
CH3
CH3
O
OH
CH3
O
H3C
CH3
OH
O
CH3


Forskolin
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stock solutions in DMSO are stable for up to 4 months when stored at +4°C. Do not dissolve in ethanol, which inhibits forskolin activation of adenylate cyclase.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Coleonol, Colforsin
Appearance	White solid.
CAS	66575-29-9
Couple Target	Adenylate cyclase
Couple Type	Activator
Formula	$C_{22}H_{34}O_7$
MI	**14:** 2476
MW	410.5
Purity	≥97% (HPLC, TLC)
Solubility	Soluble in anhydrous DMSO (5mg/ml), 100% ethanol (6mg/ml), or ethyl acetate (10mg/ml). DMSO is the recommended solvent for activation of cAMP.
Source	Isolated from *Coleus forskohlii*.

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