



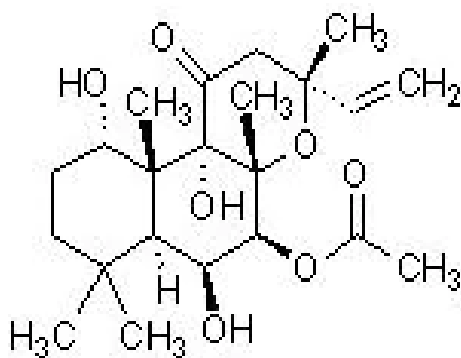
## Forskolin (CAS: 66575-29-9)

### Catalog #: EBC51097

#### Biological Activity

<b>Synonym(s)</b>	Coleonol, Adenylyl cyclase activator
<b>Chemical Name</b>	(3R,4aR,5S,6S,6aS,10S,10aR,10bS)-Dodecahydro-6,10,10b-trihydroxy-3,4a,7,7,10a-pentamethyl-1-oxo-3-vinyl-1H-benzo[f]chromen-5-yl acetate
<b>Application</b>	Forskolin is an adenylate cyclase activator and MAP kinase inhibitor
<b>CAS Number</b>	66575-29-9
<b>Purity</b>	≥98.0%
<b>Molecular Weight</b>	410.50
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>34</sub> O <sub>7</sub>
<b>SMILES</b>	<chem>CC(=O)O[C@H]2[C@@H](O)[C@@H]1[C@](C)([C@@H](O)CCC1(C)C)[C@@]3(O)C(=O)C[C@](C)(C=C)O[C@]23C</chem>
<b>Target &amp; IC50</b>	MAP kinase: IC50 = 25 Mm; adenylyl cyclase: IC50 = 41 nM
<b>Shipping</b>	Gel Pack
<b>Storage</b>	Store at -20° C

#### Molecular Structure



#### Solubility

DMSO: 30 mg/mL (73 mM)  
 Ethanol: 15 mg/mL (36.5 mM)  
**PS:** < 1 mg/ml refers to the product insoluble

#### Product Description

Forskolin is a diterpenoid isolated from *Coleus forskohlii*, interacts directly with the catalytic subunit of A cyclase (adenylate cyclase), activating the enzyme and raising intracellular levels of cAMP. Forskolin is cell permeable and active in vivo producing positive inotropic, platelet anti-aggregatory and anti-hypertensive effects in vitro. Has also been shown to exhibit smooth muscle relaxant activity, decrease in intraocular pressure and the promotion of hormonal release from the pituitary glands in vitro. Inhibits MAP kinase, induces phosphorylation of CREB, connexin 43, Bad, ATF-1 and PKB. Forskolin is an inhibitor of AChR.

**For Reserch Use Only. Not For Use In Diagnostic Procedures**