



Forskolin Adenylyl Cyclase Activator

E1B1612

Adenylyl Cyclase Activator

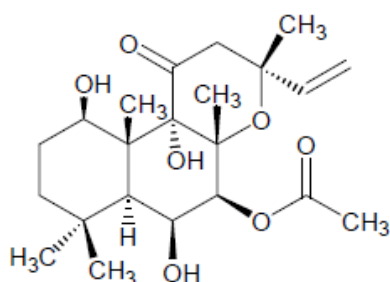
Forskolin (Colforsin)

CAS NO: 66575-29-9

CATALOG NO.: E1B1612

Package: 1mg (5mg/ml in DMSO, 0.2ml)

STRUCTURE:



PHYSICAL APPEARANCE: White solid, mp=229-232°C

MOLECULAR FORMULA: C₂₂H₃₄O₇

MOLECULAR WEIGHT: 410.5

PURITY: 99% (TLC)

STORAGE: Store solutions at -20°C for up to 1 year.

APPLICATION NOTES: Activates adenylate cyclase by directly interacting with the catalytic subunit of the enzyme EC₅₀=2-10 μM. Cell permeable and active *in vivo*. Most cell culture studies employ a working concentration of 5 or 10 μM. Do not make stock solutions in ethanol. Ethanol inhibits forskolin activation of adenylate cyclase. 1,9-Dideoxyforskolin may be used as a negative control.

REFERENCES:

- 1) Merck Index 13, 2500
- 2) Review K.B. Seamon *Annu. Rep. Med. Chem.* 1984 **19** 293
- 3) K.B. Seamon and J.W. Daly *Adv. Cyclic Nucl. Res.* 1986 **20** 1
- 4) A. Laurenza et al. *Trends Pharmacol. Sci.* 1989 **10** 442
- 5) N.J. De Souza et al. *Med. Res. Rev.* 1983 **3** 201
- 6) R.D. Huang *J. Cyclic Nucl. Res.* 1982 **8** 385

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.

For Research Use Only