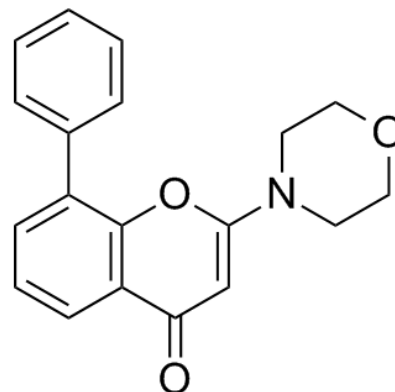


Product Name : LY294002
Cat. No. : PC-42310
CAS No. : 154447-36-6
Molecular Formula : C₁₉H₁₇NO₃
Molecular Weight : 307.3432
Target : PI3K
Solubility : DMSO: 14.9 mg/mL



Biological Activity

LY294002 is a classic, broad-spectrum **PI3K** inhibitor with IC₅₀ of 0.5/0.57/0.97 μM for PI3Kα/δ/β, respectively. LY294002 completely and specifically abolishes PI3K activity (IC₅₀=1.4 μM), but does not inhibit PI4K or other lipid kinases. LY294002 demonstrates growth-inhibitory and apoptosis-inducing effect in colon cancer cell lines, with decreased phosphorylated Akt Ser(473). LY294002 suppresses tumor growth in mouse xenografts. LY294002 also is a potent inhibitor of **CK2** with IC₅₀ of 98 nM.

References

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Cheatham B, et al. *Mol Cell Biol*. 1994 Jul;14(7):4902-11.
Semba S, et al. *Clin Cancer Res*. 2002 Jun;8(6):1957-63.
Gharbi SI, et al. *Biochem J*. 2007 May 15;404(1):15-21.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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