



LY-294002

PI3K Inhibitor

E1B1737

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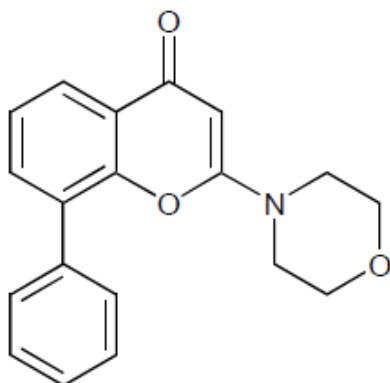
2-(4-Morpholinyl)-8-phenyl-4H-1-benzopyran-4-one

CAS NO: 154447-36-6

CATALOG NO.: E1B1737

Package: 1mg (10mg/ml in DMSO, 100ul)

STRUCTURE:



PHYSICAL APPEARANCE: Off-white-pale yellow solid (m.p. 182-184°C)

MOLECULAR FORMULA: C₁₉H₁₇NO₃

MOLECULAR WEIGHT: 307.4

PURITY: 99% (TLC)

SOLUBILITY: Soluble in DMSO (25 mg/ml warm) and ethanol (25 mg/ml warm)

STORAGE: Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.

APPLICATION NOTES: Potent, cell permeable and specific inhibitor of phosphatidylinositol 3-kinase (IC₅₀ = 1.4 μM; purified PI 3-kinase). Does not significantly inhibit PKC, PKA, MAP kinase, S6 kinase, EGFRK, c-src kinase, PI 4-kinase, DAG kinase or rabbit kidney ATPase at concentrations of 50 μM. In intact neutrophils stimulated with fMet-Leu-Phe, LY 294002 completely abolished PI 3-kinase activity at 50 μM without cell toxicity. Also blocked proliferation of cultured rabbit aortic smooth muscle cells without cell death. Induces apoptosis.

REFERENCES:

1. C.J.Vlahos *et al. J.Biol.Chem.* 1994 **269** 5241
2. V.Sanchez Margalet *et al. Biochem.Biophys.Res.Comm.* 1994 **204** 446
3. T.J.Kovacovics *et al. J.Biol.Chem.* 1995 **270** 11358
4. R.Yao and G.M.Cooper *Science* 1995 **267** 2003

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.

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