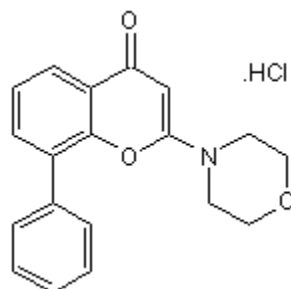


LY 294002 hydrochloride

Cat. No. 1130



Chemical Name: 2-(4-Morpholinyl)-8-phenyl-4H-1-benzopyran-4-one hydrochloride

Biological Activity

A highly selective inhibitor of phosphatidylinositol 3-kinase (IC₅₀ values are 0.31, 0.73, 1.06 and 6.60 μM for PI 3-Kβ, PI 3-Kα, PI 3-Kδ and PI 3-Kγ respectively). Inhibits proliferation and induces apoptosis in human colon cancer cells *in vitro* and *in vivo*. Inhibits autophagic sequestration in rat hepatocytes. Negative control [LY 303511](#) (Cat. No. 2418) also available.

Technical Data

M.Wt:

343.81

Purity:

>99 %

Formula:

C₁₉H₁₇NO₃·HCl

Storage:

Store at RT

Solubility:

Soluble to 25 mM in DMSO and to 5 mM in ethanol

CAS No:

154447-36-6

The technical data provided above is for guidance only.

For batch specific data refer to the Certificate of Analysis.

References

Vlahos *et al* (1994) A specific inhibitor of phosphatidylinositol 3-kinase, 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one (LY 294002). *J.Biol.Chem.* **269** 5241. PMID: [8106507](#).

Blommaert *et al* (1997) The phosphatidylinositol 3-kinase inhibitors wortmannin and LY294002 inhibit autophagy in isolated rat hepatocytes. *Eur.J.Biochem.* **243** 240. PMID: [9030745](#).

Chasserot-Golaz *et al* (1998) Possible involvement of phosphatidylinositol-3-kinase in regulated exocytosis: studies in chromaffin cells with inhibitor LY 294002. *J.Neurochem.* **70** 2347. PMID: [9603199](#).

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Ferrandi et al (2007) Phosphoinositide 3-kinase γ inhibition plays a crucial role in early steps of inflammation by blocking neutrophil recruitment. *J.Pharmacol.Exp.Ther.* **322** 923. PMID: [17526805](#).

If you know of a relevant citation for this product [please let us know](#).

Keywords: LY 294002 hydrochloride, supplier, Selective, PI, 3-kinase, inhibitors, 3-Kinase, PI3K, Akt, Signaling, Signalling, Phosphoinositide, Kinases, PIP2, Inositol, Lipids, cAMP, LY294002, hydrochloride

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