

Cat. No. L 9908

LY 294002

Specific, cell permeable phosphatidylinositol 3-kinase inhibitor.

Mol. Formula: C₁₉H₁₇NO₃·HCl**Mol. Wt.:** 343.81 (anhyd.)**m.p.:** 240-241°C**CAS Registry No.:** 154447-36-6**Chemical Name:** 2-(4-Morpholinyl)-8-phenyl-4H-1-benzopyran-4-one hydrochloride**Physical Properties:** Off-white solid.**Caution:** The pharmacology of this compound is incompletely characterized and due care should be exercised in its use. Avoid skin contact, ingestion or inhalation.**Storage:** Store tightly sealed at room temperature.**Solubility:** Soluble in methanol (5 mg/ml) or DMSO (>5 mg/ml); insoluble in water.**Disposal:** Dissolve or mix the compound with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.**References:**

1. Vlahos C.J., Matter, W.F., Hui, K.Y., Brown, R.F. "A specific inhibitor of phosphatidylinositol 3-kinase, 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one (LY294002)." *J. Biol. Chem.* **269**, 5241-5248 (1994).
2. Brunn, G.J., Williams, J., Sabers, C., Wiederrecht, G., Lawrence, J.C. Jr., Abraham, R.T. "Direct inhibition of the signaling functions of the mammalian target of rapamycin by the phosphoinositide 3-kinase inhibitors, wortmannin and LY294002." *EMBO J.* **15**, 5256-5267 (1996).
3. Vlahos, C.J., Matter, W.F., Brown, R.F., Traynor-Kaplan, A.E., Heyworth, P.G., Prossnitz, E.R., Ye, R.D., Marder, P., Schelm, J.A., Rothfuss, K.J. et al. "Investigation of neutrophil signal transduction using a specific inhibitor of phosphatidylinositol 3-kinase." *J. Immunol.* **154**, 2413-2422 (1995).

Rev. 01/01

Sigma-RBI brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.

Please see reverse side of the invoice or packing slip.

Sigma-RBI brand products are sold through Sigma-Aldrich, Inc.
Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.
Please see reverse side of the invoice or packing slip.