

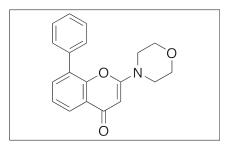
Product ID L4796 CAS No. 154447-36-6 Chemical Name

Synonym

Formula C₁₉H₁₇NO₃ Formula Wt. 307.34 Melting Point Purity ≥99% Solubility DMSO 36 mg/mL (117.13 mM) Ethanol 21 mg/mL (68.32 mM) Store Temp Ambient



Product Information



Bulk quanitites available upon request

Product ID	Size
L4796	5 mg
L4796	25 mg
L4796	100 mg

Description LY294002 is an inhibitor of PI3K that is used to sensitize cancer cells to other co-administered anticancer chemotherapeutics. In macrophages and monocytes, LY294002 inhibits NF-κB activity and decreases levels of p50 NF-κB; it also inhibits LPS-induced expression of IL-10. LY294002 prevents ruffled border formation in osteoclasts by altering the binding of acidic vacuoles with the intercellular membrane. Additionally, this compound inhibits DNA-dependent protein kinase (DPK) activity and prevents the formation of NO.

References Avni D, Glucksam Y, Zor T. The phosphatidylinositol 3-kinase (PI3K) inhibitor LY294002 modulates cytokine expression in macrophages via p50 nuclear factor κB inhibition, in a PI3K-independent mechanism. Biochem Pharmacol. 2012 Jan 1;83(1):106 -14. PMID: 22005520.

Salh B, Wagey R, Marotta A, et al. Activation of phosphatidylinositol 3-kinase, protein kinase B, and p70 S6 kinases in lipopolysaccharide-stimulated Raw 264.7 cells: differential effects of rapamycin, Ly294002, and wortmannin on nitric oxide production. J Immunol. 1998 Dec 15;161(12):6947-54. PMID: 9862729.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.