Phone: 888-558-5227

651-644-8424 Email: getinfo@lktlabs.com

888-558-7329 Fax:

Web: lktlabs.com

## **Product Information**

Product ID L4796

CAS No. 154447-36-6

**Chemical Name** 

Synonym

Formula C<sub>19</sub>H<sub>17</sub>NO<sub>3</sub> Formula Wt. 307.34

**Melting Point** 

Purity ≥99%

Solubility DMSO 36 mg/mL (117.13

mM)

Ethanol 21 mg/mL (68.32

mM)

Incoluble

Store Temp Ambient Ship Temp Ambient

**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. TEST!!!!!!

## **Pricing and Availability**

Bulk quanitites available upon request

Product ID	Size	List Price
L4796	5 mg	\$49.70
L4796	25 mg	\$165.40
L4796	100 mg	\$529.20

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.

Nakamura I, Sasaki T, Tanaka S, et al. Phosphatidylinositol-3 kinase is involved in ruffled border formation in osteoclasts. J Cell Physiol. 1997 Aug;172(2):230-9. PMID: 9258344.

Rosenzweig KE, Youmell MB, Palayoor ST, et al. Radiosensitization of human tumor cells by the phosphatidylinositol3-kinase inhibitors wortmannin and LY294002 correlates with inhibition of DNA-dependent protein kinase and prolonged G2-M delay. Clin Cancer Res. 1997 Jul; 3(7):1149-56. PMID: 9815794.

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