

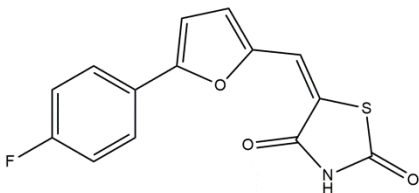
CAY10505

12/19

ALTERNATE NAMES: (5E)-5-[[5-(4-fluorophenyl)furan-2-yl]methylidene]-1,3-thiazolidine-2,4-dione; 5-[[5-(4-fluorophenyl)-2-furanyl]methylene]-2,4-thiazolidinedione

CATALOG #: B2962-5 5 mg
B2962-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₄H₈FNO₃S

MOLECULAR WEIGHT: 289.28

CAS NUMBER: 1218777-13-9, 328960-84-5

APPEARANCE: Solid

PURITY: 99.8%

SOLUBILITY: ~20 mg/ml in DMSO and DMF

DESCRIPTION: CAY10505 is a potent inhibitor of phosphoinositide 3-kinase (PI3K), selectively inhibiting the γ isoform with an IC₅₀ of 30 nM. It inhibits the α , β , and δ isoforms of PI3K with IC₅₀ values of 0.94, 20, and 20 μ M, respectively. It significantly inhibits the unrelated casein kinase 2 (CK2) with an IC₅₀ of 20 nM. It also inhibits the phosphorylation of the PI3K substrate PKB/Akt in mouse macrophages with an IC₅₀ of 228 nM. It improves hypertension-associated vascular endothelial dysfunction in rats.

STORAGE TEMPERATURE: -20°C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Pomel, V., Klicic, J., Covini, D., et al. Furan-2-ylmethylene thiazolidinediones as novel, potent, and selective inhibitors of phosphoinositide 3-kinase γ . *Journal of Medicinal Chemistry* 49, 3857-3871 (2006).
2. Tyagi, S., Sharma, S., Budhiraja, R.D. Effect of phosphatidylinositol 3-kinase- γ inhibitor CAY10505 in hypertension, and its associated vascular endothelium dysfunction in rats. *Can J Physiol Pharmacol.* 90(7):881-5 (2012).

RELATED PRODUCTS:

IPI-145 (Cat. No. 2445)
 PI3-K γ Inhibitor, AS-605240 (Cat. No. 1780)
 TGX-221 (Cat. No. 1781)
 EZSolution™ LY294002 (Cat. No. 1747)
 DiscoveryPak™ PI 3-Kinase Inhibitor Set (Cat. No. K856)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**