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- Mindermengenzuschlag
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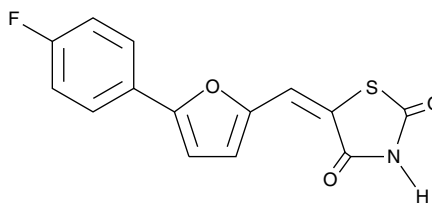
Product Information



CAY10505

Item No. 10009078

CAS Registry No.: 328960-84-5
Formal Name: 5-[[5-(4-fluorophenyl)-2-furanyl]methylene]-2,4-thiazolidinedione
MF: C₁₄H₈FNO₃S
FW: 289.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that CAY10505 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10505 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10505 in an organic solvent purged with an inert gas. CAY10505 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of CAY10505 in these solvents is approximately 20 mg/ml.

CAY10505 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10505 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CAY10505 has a solubility of approximately 0.15 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Phosphoinositide 3-kinase γ (PI3K γ), expressed primarily in hematopoietic cells, plays several important roles in immunity. CAY10505 is a potent inhibitor of PI3K, selectively inhibiting the γ isoform (IC₅₀ = 30 nM) better than the α , β , and δ isoforms (IC₅₀ = 0.94, 20, and 20 μ M, respectively). Tested against a panel of 80 other kinases, CAY10505 significantly inhibits only the unrelated casein kinase 2 (CK2, IC₅₀ = 20 nM). It also inhibits the phosphorylation of the PI3K substrate PKB/Akt in mouse macrophages (IC₅₀ = 228 nM). Oral administration of CAY10505 reduces neutrophil recruitment in mice to an extent that is comparable to that observed in PI3K γ -deficient mice.¹

Reference

1. Pomel, V., Klicic, J., Covini, D., *et al.* Furan-2-ylmethylene thiazolidinediones as novel, potent, and selective inhibitors of phosphoinositide 3-kinase γ . *J. Med. Chem.* **49**, 3857-3871 (2006).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10009078

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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