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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

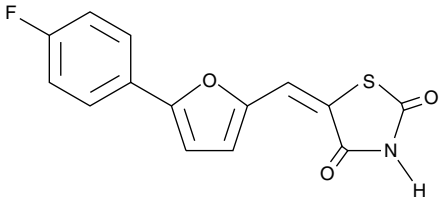
linkedin.com/company/szaboscandic

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: $C_{14}H_8FNO_3S$
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 (PI3Kγ), expressed primarily in hematopoietic cells, plays several important roles in immunity. CAY10505 is a potent inhibitor of PI3K, selectively inhibiting the γ isoform (IC_{50} = 30 nM) better than the α, β, and δ isoforms (IC_{50} = 0.94, 20, and 20 µM, respectively). Tested against a panel of 80 other kinases, CAY10505 significantly inhibits only the unrelated casein kinase 2 (CK2, IC_{50} = 20 nM). It also inhibits the phosphorylation of the PI3K substrate PKB/Akt in mouse macrophages (IC_{50} = 228 nM). Oral administration of CAY10505 reduces neutrophil recruitment in mice to an extent that is comparable to that observed in PI3Kγ-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

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com