

Data Sheet

 Product Name:
 AS-252424

 Cat. No.:
 CS-3164

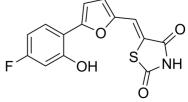
 CAS No.:
 900515-16-4

 Molecular Formula:
 C14H8FNO4S

Molecular Weight: 305.28
Target: PI3K

Pathway: PI3K/Akt/mTOR

Solubility: DMSO : 25 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

AS-252424 is a potent and selective $P13K\gamma$ inhibitor with an IC_{50} of 30 ± 10 nM. IC50 & Target: IC50: 30 ± 10 nM (P13K γ), 935 ± 150 nM (P13K γ), $20~\mu$ M (P13K β), $20~\mu$ M (P

PROTOCOL (Extracted from published papers and Only for reference)

Kinase Assay: ^[1]A PI3Kγ lipid kinase assay, based on the neomycin-coated scintillation proximity assay (SPA) bead technology, is performed in 384-well plates using ATP/[γ^{33} P]ATP and PtdIns. Kinase assays for IC₅₀ value determinations with PI3Kα, PI3Kβ, and PI3Kδ are carried out^[1].

Cell Assay: ^[1]After 3 h of starvation in serum-free medium, Raw-264 macrophages are pretreated with inhibitors (e.g., AS-252424, 1 nM, 10 nM, 10 nM, 1 μM, 10 μM and 100 μM) or DMSO for 30 min and stimulated for 5 min with 50 nM C5a. PKB/Akt phosphorylation is monitored using phospho-Ser-473 Akt specific antibody and standard ELISA protocols^[1].

Animal Administration: [1]Mice[1]

PI3Ky knockout (KO) mice are used. Oral administration of AS-252424 at 10 mg/kg is performed in PI3Ky-deficient mice.

References:

[1]. Pomel V, et al. Furan-2-ylmethylene thiazolidinediones as novel, potent, and selective inhibitors of phosphoinositide 3-kinase gamma. J Med Chem.

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2006 Jun 29;49(13):3857-71.

CAIndexNames:

2,4-Thiazolidinedione, 5-[[5-(4-fluoro-2-hydroxyphenyl)-2-furanyl]methylene]-, (5Z)-

SMILES:

O=C(NC/1=O)SC1=C/C2=CC=C(C3=CC=C(F)C=C3O)O2

Caution: Product has not been fully validated for medical applications. For research use only.

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