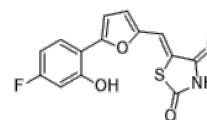


Product Name : AS-252424
Cat. No. : PC-22458
CAS No. : 900515-16-4
Molecular Formula : C₁₄H₈FNO₄S
Molecular Weight : 305.28
Target : PI3K
Solubility : 10 mM in DMSO



CAS: 900515-16-4

Biological Activity

AS-252424 is a potent, and selective inhibitor of phosphoinositide 3-kinase gamma (PI3K γ) with IC₅₀ of 30 nM, 30-fold selective over PI3K α , also is a potent ferroptosis inhibitor targeting ACSL4.

AS-252424 displays no significant activity over PI3K β/δ (IC₅₀>20 μ M), as well as excellent selectivity profile against a large set of unrelated protein kinases.

AS-252424 inhibits C5a-mediated PKB/Akt phosphorylation in a concentration-dependent manner in Raw-264 macrophages (IC₅₀=0.228 μ M), with no effect on SCF-induced phosphorylation of PKB/Akt in bone marrow derived mast cells.

AS-252424 inhibits preferentially chemokine-induced (PI3K γ -mediated) but not cytokine-induced (class IA PI3K-mediated) PKB/Akt phosphorylation in the human monocytic cell line THP-1.

AS-252424 decreases leukocyte infiltration in a murine peritonitis model.

AS-252424 also is a potent ferroptosis inhibitor, directly binds to the glutamine 464 of ACSL4 to inhibit its enzymatic activity.

References

Pomel V, et al. J Med Chem. 2006 Jun 29;49(13):3857-71.

Huang Q, et al. Sci Adv. 2024 Mar 29;10(13):eadk1200.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com