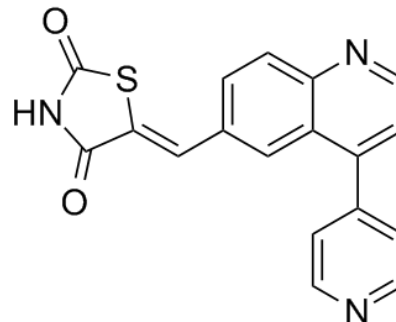


Product Name : GSK1059615
Cat. No. : PC-42850
CAS No. : 958852-01-2
Molecular Formula : C₁₈H₁₁N₃O₂S
Molecular Weight : 333.3638
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

GSK1059615 is a highly potent, dual **PI3K/mTOR** inhibitor with IC₅₀ of 0.4 nM/0.6 nM/2 nM/5 nM and 12 nM for PI3K $\alpha/\beta/\delta/\gamma$ and mTOR, respectively.

GSK1059615 inhibits survival and proliferation of established (SCC-9, SQ20B and A253 lines) and primary human HNSCC cells.

GSK1059615 blocks PI3K-AKT-mTOR activation in HNSCC cells, induces programmed necrosis but not apoptosis, suppresses SCC-9 tumor growth in nude mice.

GSK1059615 strongly reduces neutrophil-sperm interaction with IC₅₀ of <10 nM in cattle.

References

Carnero A. et al. *Expert Opin Investig Drugs*. 2009 Sep;18(9):1265-77.

Xie J, et al. *Oncotarget*. 2017 Feb 7;8(31):50814-50823.

Leontieva OV, et al. *Aging* (Albany NY). 2016 Dec 30;8(12):3535-3551.

Hong J, et al. *Biol Reprod*. 2017 Nov 1;97(5):671-687.

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

E-mail: tech@probechem.com