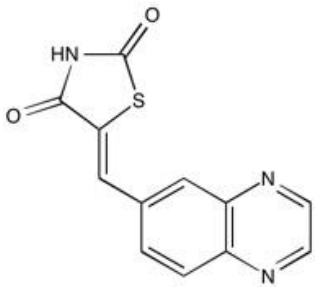
Catalog # 10-2575
AS-605240
CAS# 648450-29-7
5-(6-Quinoxalinylmethylene)-2,4-thiazolidine-2,4-dione
Lot # S103024



Potent and selective inhibitor of PI 3-kinase γ (PI 3-K γ), IC_{50} = 8 nM displaying 30-fold selectivity over PI 3-Kδ and PI 3-Kβ and 7.5-fold selectivity over PI 3-Kα[1]. Suppresses joint inflammation in two distinct mouse models[1]. Ameliorates surgical brain injury[2], colitis[3], intimal hyperplasia-induced inflammatory processes[4] and renal injury/fibrosis[5] in rodent models. Orally active.

1) Camps *et al*. (2005), *Blockade of PI3Kgamma suppresses joint inflammation and damage in mouse models of rheumatoid arthritis*; Nature Med., **11** 936
2) Huang *et al*. (2015), *Phosphoinositide 3-Kinase Gamma Contributes to Neuroinflammation ina Rat Model of Surgical Brain Injury*; J. Neurosci., **35** 10390
3) Peng *et al*. (2010), *Inhibition of phosphoinositide 3-kinase ameliorates dextran sodium sulfate-induced colitis in mice*; J. Pharmacol. Exp. Ther., **332** 46
4) Smimova *et al*. (2014), *Targeting PI3Kγ activity decreases vascular trauma-induced intimal hyperplasia through modulation of the Th1 response*; J. Exp. Med., **211** 1779
5) Yu *et al*. (2018), *A blockade of PI3Kγ signaling effectively mitigates angiotensin II-induced renal injury and fibrosis in a mouse model*; Sci. Rep., **8** 10988

PHYSICAL DATA

Molecular Weight:	257.27
Molecular Formula:	$C_{12}H_7N_3O_2S$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 1.5 mg/ml with warming)
Physical Description:	Red solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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