

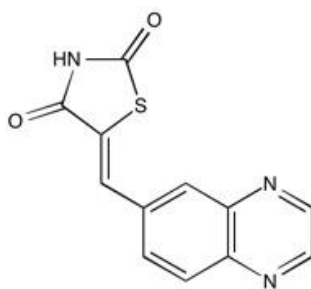
**Catalog # 10-2575**

**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  $\gamma$  (PI 3-K  $\gamma$ ),  $IC_{50} = 8$  nM displaying 30-fold selectivity over PI 3-K $\delta$  and PI 3-K $\beta$  and 7.5-fold selectivity over PI 3-K $\alpha$ <sup>1</sup>. Suppresses joint inflammation in two distinct mouse models<sup>1</sup>. Ameliorates surgical brain injury<sup>2</sup>, colitis<sup>3</sup>, intimal hyperplasia-induced inflammatory processes<sup>4</sup> and renal injury/fibrosis<sup>5</sup> 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 in a 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 PI3K $\gamma$  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 PI3K $\gamma$  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 <sub>12</sub> H <sub>7</sub> N <sub>3</sub> O <sub>2</sub> S
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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