Catalog # 10-2595

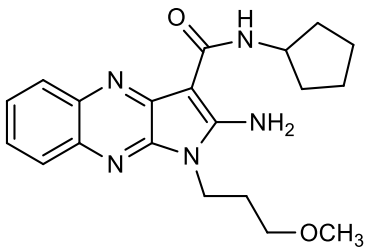
SirtAct

839699-72-8

CAY10591

2-Amino-N-cyclopentyl-1-(3-methoxypropyl)-1H-pyrrolo[2,3-b]quinoxaline-3-carboxamide

Lot # X106917



Sirt1 activator (233% at 10 μM)[1] Suppresses TNFα release from THP-1 cells and stimulates adipogenesis in 3T3L1 cells[1]. SIRT1 stimulation by SirtAct leads to decreased tissue factor mediated thrombogenicity in mice[2]. Inhibits NFκB activation and reduces inflammatory cytokine production in lamina propria mononuclear cells from IBD patients[3]. Prevents and cures experimental colitis in a mouse model[3].

1) Nayagam *et al*. (2006), *SIRT1 modulating compounds from high-throughput screening as anti-inflammatory and insulin sensitizing agents*; J. Biomol. Screen., **11** 959

2) Barbieri *et al*. (2012), *Cyclooxygenase-2-derived prostacyclin regulates arterial thrombus formation by suppressing tissue factor in a sirtuin-1-dependent-manner*; Circulation, **126** 1373

3) Caruso *et al*. (2014), *Defective expression of SIRT1 contributes to sustain inflammatory pathways in the gut*; Mucosal Immunol., May 21 Epub.

PHYSICAL DATA

Molecular Weight:	367.46
Molecular Formula:	$C_{20}H_{25}N_5O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), Ethanol (20 mg/ml, with warming)
Physical Description:	Olive green solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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