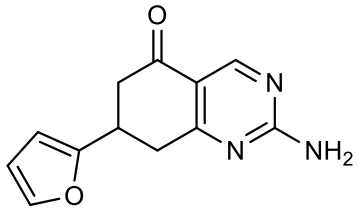
Catalog # 10-1482

NKY80

299442-43-6

2-Amino-7-(2-furanyl)-7,8-dihydro-5(6H)-quainazolinone

Lot # X106115



Potent and selective adenylyl cyclase inhibitor. Selective for AC5 and over AC3 and AC2 (IC_{50} = 8.3 μM, 132 μM and 1.7 mM respectively)[1,2]. More recently shown to indiscriminantly inhibit AC6[3]. An extremely useful tool for probing the involvement of adenylyl cylases in cellular signaling[4].

1) Onda *et al*. (2001), *Type[specific regulation of adenylyl cyclase. Selective pharmacological stimulation and inhibition of adenylyl cyclase isoforms*; J. Biol. Chem., **276** 47785
2) Pierre *et al*. (2009), *Capturing adenylyl cyclases as potential drug targets*; Nat. Rev. Drug Discov., **8** 321
3) Brand *et al*. (2013), *Isoform selectivity of adenylyl cyclase inhibitor: characterization of known and novel compounds*; J. Pharmacol. Exp. Therap., **347** 265
4) Oritz-Capisano *et al*. (2007), *Adenylyl cyclase isoform v mediates renin release from juxtaglomerular cells*; Hypertension, **49** 618

PHYSICAL DATA

Molecular Weight:	229.24
Molecular Formula:	$C_{12}H_{11}N_3O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or in Ethanol (up to 5 mg/ml with warming)
Physical Description:	Gold-colored solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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