

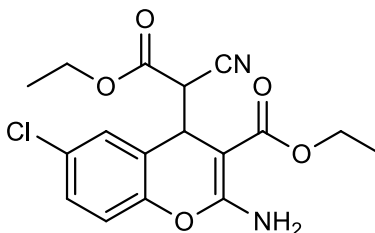
Catalog # 10-1468

SC-79

305834-79-1

2-Amino-6-chloro- α -cyano-3-(ethoxycarbonyl)-4H-1-benzopyran-4-acetic acid ethyl ester

Lot # X105918



Akt activator. Binds to the pleckstrin homology domain of Akt preventing membrane translocation but paradoxically activating it in the cytosol. Enhances Akt phosphorylation by upstream protein kinases. Suppresses excitotoxicity-induced neuronal death *in vitro* and *in vivo*.¹ A useful tool for studying the PI3K/Akt axis.²

- 1) Jo *et al.* (2012), *Small-molecule-induced cytosolic activation of protein kinase Akt rescues ischemia-elicited neuronal death*; Proc. Natl. Acad. Sci. USA, **109** 10581
- 2) Yang *et al.* (2016), *MIR-221 Promotes Capan-2 Pancreatic Ductal Adenocarcinoma Cells Proliferation by Targeting PTEN-Akt*; Cell. Physiol. Biochem., **38** 2366
- 3) Chen *et al.* (2017), *Novel Akt activator SC-79 is a potential treatment for alcohol-induced osteonecrosis of the femoral head*; Oncotarget; **8** 31065

PHYSICAL DATA

Molecular Weight:	364.79
Molecular Formula:	C ₁₇ H ₁₇ ClN ₂ O ₅
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml) or Ethanol (up to 40 mg/ml with warming)
Physical Description:	White 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 2 months.

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