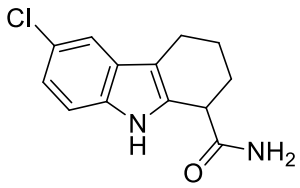
Catalog # 10-1083

EX-527

CAS# 49843-98-3

6-Chloro-2,3,4,9-tetrahydro-1H-carbazole-1-carboxamide (racemic)

Lot # X101209



Selective SIRT1 inhibitor (IC_{50}=98 nM). Does not inhibit other HDACs or SIRT family members. Increases p53 acetylation following DNA damage. Cell permeable.

1) Napper *et al.* (2005), *Discovery of indoles as potent and selective inhibitors of the deacetylase SIRT1;* J.Med.Chem. **48** 8045
2) Solomon *et al*. (2006*), Inhibition of SIRT1 catalytic activity increases p53 acetylation but does not alter cell survival following DNA damage*; Mol. Cell Biol. **26** 28
3) Gertz *et al.* (2013*) EX-527 inhibits Sirtuins by exploiting their uniqye NAD+-dependent deacetylation mechanism;* Proc.Natl.Acad.Sci USA **110** E2772

PHYSICAL DATA

Molecular Weight:	248.71
Molecular Formula:	$C_{13}H_{13}ClN_2O$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 18 mg/ml) or ethanol (up to 10 mg/ml)
Physical Description:	Light yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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