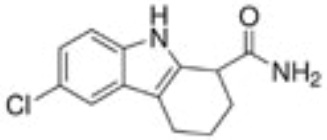
EX-527

Catalog Number P005-5MG

Catalog Number P005-25MG

FEATURES

- Selective SIRT1 inhibitor
- Does not inhibit HDACs
- Inhibitor of SIRT1 deacetylation of p53



ARBOR ASSAYS

INTRODUCTION

EX-527 is a cell-permeable, selective inhibitor of SIRT1 (IC50 = 98 nM *in vivo*, 38nM *in vitro*) that does not inhibit histone deacetylase (HDAC) or other sirtuin deacetylase family members (IC50 values are 20 µM, 49 µM, > 100 µM and > 100 µM for SIRT2, SIRT3, HDAC and NADase respectively). EX-527 has been used to investigate the relationship between SIRT1-mediated deacetylation of p53, p53 activity, and cell survival following DNA damage.

FORM:	Light yellow powder
MOLECULAR WEIGHT:	284.71
STORAGE:	4°C, desiccated
FORMULA:	$C_{13}H_{13}ClN_2O$
CAS NUMBER:	49843-98-3
OTHER NAMES:	6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazole-1-carboxamide, racemate
USES:	Soluble to 18 mg/mL in DMSO and 10 mg/mL in Ethanol

REFERENCES:

Napper, AD, et al. Discovery of indoles as potent and selective inhibitors of the deacetylase SIRT1. J.Med.Chem. 48:8045. (2005)

Solomon, JM, et al. Inhibition of SIRT1 catalytic activity increases p53 acetylation but does not alter cell survival following DNA damage. Mol.Cell.Biol. 26:28. (2006)

Nayagam, V.M., Wang, X., Tan, Y.C., et al. SIRT1 modulating compounds from high-throughput screening as anti-inflammatory and insulin-sensitizing agents. J Biomol Screen 11:959-967 (2006)

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