

EX-527

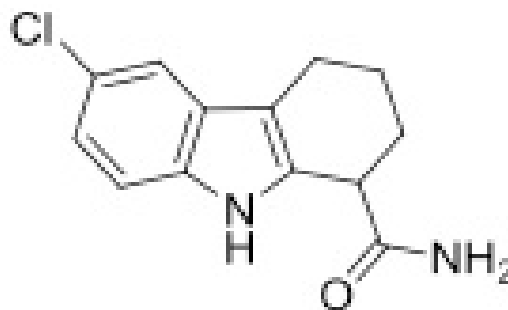
Catalog No: 14028, 14029**Format:** 25 mg, 5 mg**Chemical Properties:**

MW = 248.7

C₁₃H₁₃ClN₂O

CAS 49843-98-3

Physical Properties: Light yellow powder

Names: EX-527, 6-Chloro-2,3,4,9-tetrahydro-1H-carbazole-1-carboxamide (racemic)

Pharmacology: Selective SIRT1 inhibitor (IC₅₀ = 98 nM). Does not inhibit other HDACs or SIRT family members. Increases p53 acetylation following DNA damage (ref 1). Causes cell cycle arrest at G1 (ref 2). Inhibits differentiation and facilitates expansion of hematopoietic progenitor cells (ref 3). An extremely useful tool for determining the involvement of SIRT1 in cellular physiology (ref 4). Cell permeable.

Solubilization: May be dissolved in DMSO (18 mg/ml); Ethanol (10 mg/ml)

Fluorescent Properties: N/A

Quality Control:

>98% (TLC); NMR (Conforms)

References:

1. JM Solomon *et al. Mol. Cell Biol.* 2006, 26:28
2. B Peck *et al. Mol. Cancer Ther.* 2010, 9:844
3. T Peled *et al. Exp. Hematol.* 2012, 40:342
4. JL Andersen *et al. Mol. Cell* 2011, 43:834

Storage and Guarantee: Store desiccated as supplied at 4°C for up to 2 years. Store solutions at -20°C for up to 2 months. This product is guaranteed for 6 months from date of arrival.