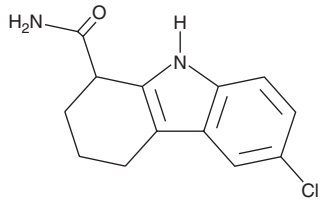
PRODUCT INFORMATION

(±)-EX-527

Item No. 10009798

CAS Registry No.: 49843-98-3
Formal Name: 6-chloro-2,3,4,9-tetrahydro-1H-carbazole-1-carboxamide
MF: $C_{13}H_{13}ClN_2O$
FW: 248.7
Purity: ≥98%
UV/Vis.: λ_{max}: 233, 291 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(±)-EX-527 is supplied as a crystalline solid. A stock solution may be made by dissolving the (±)-EX-527 in the solvent of choice, which should be purged with an inert gas. (±)-EX-527 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (±)-EX-527 in ethanol is approximately 5 mg/ml and approxiamtely 20 mg/ml in DMSO and DMF.

(±)-EX-527 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (±)-EX-527 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. (±)-EX-527 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

EX-527 is an inhibitor of sirtuin 1 (SIRT1; IC_{50} = 0.098 µM).[1] It is selective for SIRT1 over SIRT2, and SIRT3 (IC_{50}s = 19.6 and 48.7 µM, respectively) and the cytochrome P450 (CYP) isoforms CYP3A4, CYP2D6, CYP2C9, CYP2C19, and CYP1A2 at 1 µM. EX-527 (50 µM) induces cell cycle arrest at the G_1 phase in MCF-7 cells.[2]

References

1. Napper, A.D., Hixon, J., McDonagh, T., *et al.* Discovery of indoles as potent and selective inhibitors of the deacetylase SIRT1. *J. Med. Chem.* **48(25)**, 8045-8054 (2005).
2. Peck, B., Chen, C.-Y., Ho, K.-K., *et al.* SIRT inhibitors induce cell death and p53 acetylation through targeting both SIRT1 and SIRT2. *Mol. Cancer Ther.* **9(4)**, 844-855 (2010).

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