

Catalog # 10-4639

A939572

CAS# 1032229-33-6 4-(2-Chlorophenoxy)-N-[3-(methylcarbamoyl)phenyl]piperidine-1-carboxamide Lot # FBS3003



A939572 is a potent stearoyl-CoA desaturase 1 (SCD1) inhibitor ($IC_{50}s = mouse: <4 nM$, human: 37 nM).¹ Active in various cancer models alone and in combination with other chemotherapeutics.²⁻⁶ A939572 was able to selectively eliminate human pluripotent stem cells (hPSCs) in the presence of progenitor and differentiated cells.⁷

- Xin et al. (2008), Discovery of piperidine-aryl urea-based stearoyl-CoA desaturase 1 inhibitors; Bioorg. Med. Chem. Lett., 18 4298
- 2) Von Roemeling et al. (2013), Stearoyl-CoA desaturase 1 is a novel molecular therapeutic target for clear cell renal cell carcinoma; Clin. Cancer Res., **19** 2368
- 3) Piao et al. (2019), Inhibition of stearoyl CoA desaturase-1 activity suppresses tumour progression and improves prognosis in human bladder cancer, J. Cell Mol. Med., **23** 2064
- 4) She et al. (2019), SCD1 is required for EGFR-targeting cancer therapy of lung cancer via re-activation of EGFR/PI3K/AKT signals; Cancer Cell Int., **19** 103
- 5) Skrypek et al. (2021), Inhibition of Stearoyl-CoA Desaturase Induces the Unfolded Protein Response in Pancreatic Tumors and Suppresses Their Growth; Pancreas, **50** 219
- 6) Hu et al. (2022), Inhibition of Stearoyl-CoA Desaturase 1 Potentiates Anti-tumor Activity of Amodiaquine in Non-small Cell Lung Cancer, Biol. Pharm. Bull., **45** 438
- 7) Ben-David et al. (2013), Selective Elimination of Human Pluripotent Stem Cells by an Oleate Synthesis Inhibitor Discovered in a High-Throughput Screen; Cell Stem Cell, **12** P167

PHYSICAL DATA

Molecular Weight:	387.86
Molecular Formula:	C ₂₀ H ₂₂ CIN ₃ O ₃
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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