A939572

SCD1 inhibitor

A939572 is a potent and orally bioavailable inhibitor of stearoyl-CoA desaturase 1 (SCD1), with IC50 values of <4 nM for mouse SCD1 and 37 nM for human SCD1.

Key features and applications include:

- **High Selectivity:** Specifically inhibits SCD1 with minimal off-target effects.
- **Potency:** Demonstrates strong inhibitory effects with low IC50 values.
- **Inhibit Lipid Metabolism:** Blocks the biosynthesis of monounsaturated fatty acids by inhibiting SCD1.
- **Induce Cell Death:** Promotes apoptosis in human pluripotent stem cells (hPSCs) and inhibits the proliferation of non-small cell lung carcinoma cells.
- **Reduce Tumor Growth:** Effective in various cancer models, both alone and in combination with other chemotherapeutics.

Relevant disease states include:

- **Cancer:** Active in models of clear cell renal cell carcinoma, bladder cancer, and non-small cell lung cancer.
- **Obesity and Diabetes:** SCD1 is a target for the treatment of obesity and diabetes due to its role in lipid metabolism.
- **Cardiovascular Diseases:** Potentially beneficial in reducing lipid-related cardiovascular risks.

Ordering Information

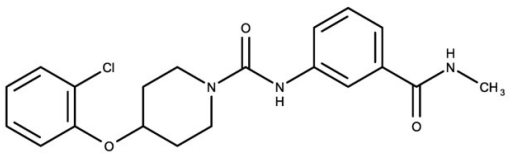
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ENZ-CHM361-0025	25mg

Manuals, SDS & CofA

View Online »

- GMP format available


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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Solutions in DMSO may be stored at -20°C for up to 3 months.
Handling	Keep container tightly closed in a dry and well-ventilated place.
Short Term Storage	-20°C
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	4-(2-Chlorophenoxy)-N-[3-(methylcarbamoyl)phenyl]piperidine-1-carboxamide
Appearance	White solid.
CAS	1032229-33-6
Couple Target	Stearoyl-CoA desaturase
Couple Type	Inhibitor
Formula	$C_{20}H_{22}ClN_3O_3$
Identity	Determined by NMR.
MW	387.86
Purity	≥98% HPLC
Solubility	Soluble in DMSO (>25 mg/ml).

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