

MF-438, SCD1 inhibitor

Catalog	Unit
TBI4558-5MG	5 mg
TBI4558-25MG	25 mg

Product Details

Formal Name: 2-Methyl-5-(6-(4-(2-trifluoromethyl)phenoxy)piperidin-3-yl)-1,3,4-thiadiazole

Molecular Formula: C₁₉H₁₈F₃N₅OS

Formula Weight: 421.44

CAS Number: 921605-87-0

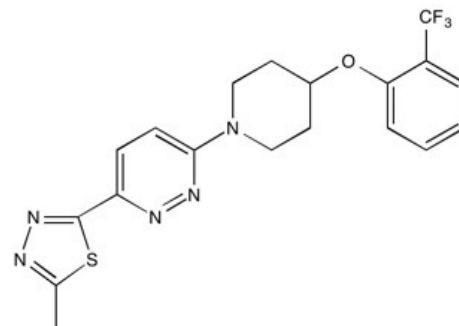
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 5 mg/ml) or in Ethanol (up to 2 mg/ml with warming).

Storage: -20°C

Stability: ≥ 1 year.



Applications

SCD1 inhibitor

Functions

MF-438 is a potent inhibitor of stearoyl-CoA desaturase 1 (SCD1) - IC₅₀ = 2.3 nM. MF-438 was potent in an in vivo mouse liver PD assay (ED₅₀ between 1 and mg/kg). Cancer initiating cells (CSC-like) were shown to be much more sensitive to MF-438 inhibition of SCD1 than progenitor and terminally differentiated cancer cells in a lung cancer model. MF-438 showed good oral bioavailability and metabolic stability making it an excellent tool for studying the effects of SCD1 in various disease models.

Application Procedures

First dissolved in DMSO (up to 5 mg/ml) or in Ethanol (up to 2 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

For research use only.