

ML329

Catalog No: tcsc6475



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

19992-50-8

Formula:

$C_{16}H_{12}N_2O_4S$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 31 mg/mL (94.41 mM)

Observed Molecular Weight:

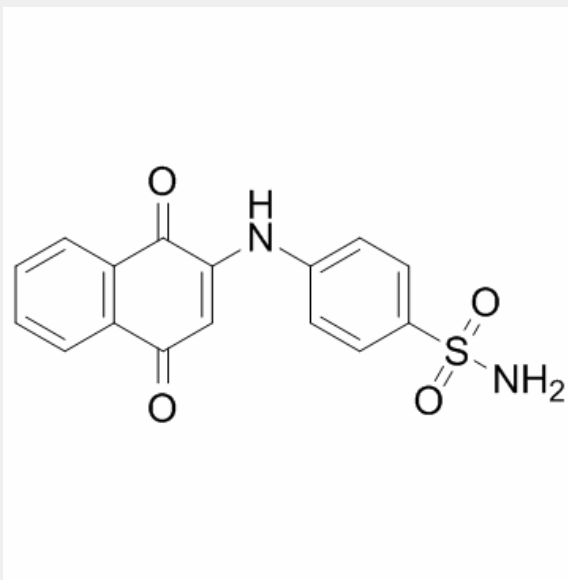
328.34

Product Description

ML329 is a small molecule inhibitor of **MITF**; inhibits TRPM-1 promoter activity with an **IC₅₀** of 1.2 μ M.

IC50 & Target: IC50: 1.2 μ M (TRPM-1)^[1]

In Vitro: ML329 inhibits the expression of numerous microphthalmia-associated transcription factor (MITF) target genes and blocks the proliferation of numerous cell lines that require MITF for proliferation. ML329 could directly or indirectly interact with MITF or components of the MITF regulatory network. As a transcription factor that regulates cell cycle and pigmentation, interference of MITF with ML329 will be useful in characterizing the specific roles of MITF in melanoma and validate blockade of MITF function as a potential treatment of melanoma. ML329 shows specific activity against the MITF-dependent cells, primary melanocytes but no effect on the viability in A375 cells. ML329 reduces the expression of multiple MITF target genes, including pigment-related genes and the cell cycle regulator CDK2. As a tool compound, ML329 will be useful in elucidating the role of MITF in melanocyte lineage development and in melanoma disease progression^[1].



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