

NSC 405020

Catalog No: tcsc3243



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

7497-07-6

Formula:

$C_{12}H_{15}Cl_2NO$

Pathway:

Metabolic Enzyme/Protease

Target:

MMP

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 260 mg/mL (999.38 mM)

Observed Molecular Weight:

260.16

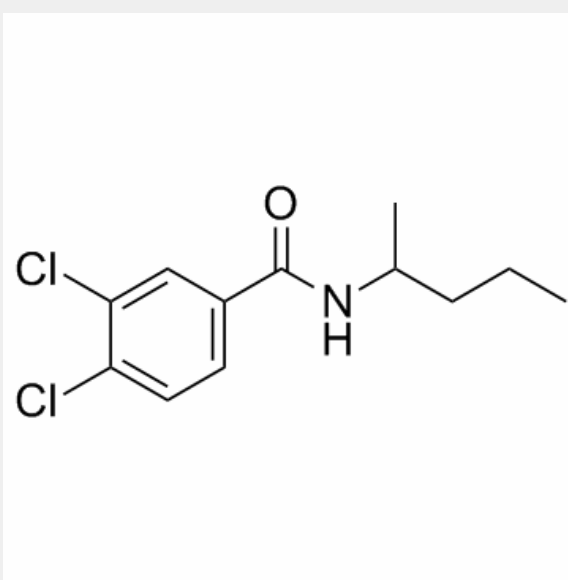
Product Description

NSC-405020 is a novel small molecule inhibitor of MT1-MMP that specifically targets PEX domain rather than the catalytic domain of MT1-MMP with IC₅₀ >100 μ M and does not inhibit the catalytic activity of MT1-MMP or MMP-2.

IC₅₀ value: > 100 μ M [1]

Target: MT1-MMP PEX inhibitor

NSC-405020 directly interacts with and binds to PEX in a vicinity of Met-328, Arg-330, Asp-376, Met-22 and Ser-470 of the druggable pocket in the full-length MT1-MMP structure, which affects the conformation and flexibility of blades I to IV of the β -propeller resulting in the decrease of the PEX-dependent homodimerization of cellular MT1-MMP. NSC-405020 dose not affect the ability of MT1-MMP to activate MMP-2 but its ability to degrade COL-I.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!