Product: NSC 405020

ALTERNATE NAME: 3,4-Dichloro-N-(1-methylbutyl)benzamide

CATALOG #: 2682-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:

MOLECULAR FORMULA: C_{12}H_{15}ClNO

MOLECULAR WEIGHT: 260.16

CAS NUMBER: 7497-07-6

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (>25 mg/ml) or EtOH (>25 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from air and light

DESCRIPTION: NSC-405020 is a membrane type-I matrix metalloproteinase (MT1-MMP) inhibitor that specifically targets the hemopexin (PEX) domain rather than the catalytic domain of MT1-MMP (IC_{50} >100 µmol/L). It does not inhibit the catalytic activity of MT1-MMP or MMP-2. 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.

REFERENCES:

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:
Batimastat (Cat. No. 1704-1)
Doxycycline hyclate (Cat. No. 2209-100, 500)
GM6001 (Cat. No. 1799-1)
Marimastat (Cat. No. 1790-1, 5)
MMP-3 Inhibitor, NNGH (Cat. No. 2569-5, 25)
MMP-3 Activity Fluorometric Assay Kit (Cat. No. K783-100)
MMP-3 Inhibitor Screening Kit (Fluorometric) (Cat. No. K793-100)
MMP-9 Inhibitor (Cat. No. 3529-100)
MMP-9 Antibody (Cat. No. 3969-200)
MMP-9 Antibody (Cat. No. 5565-100)
MMP-9, human recombinant (Cat. No. 7789-10, 50, 1000)
MMP-9 Inhibitor (Cat. No. 1981-500)
TAPI-0 (Cat. No. 2067-1)
TAPI-1 (Cat. No. 2068-1)
EZSolution™ TAPI-1 (Cat. No. 2540-1)
TAPI-2 (Cat. No. 2069-1)