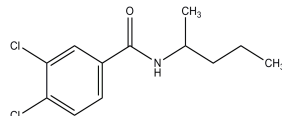


Product: NSC 405020**ALTERNATE NAME:** 3,4-Dichloro-*N*-(1-methylbutyl)benzamide**CATALOG #:** 2682-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₂H₁₅Cl₂NO**MOLECULAR WEIGHT:** 260.16**CAS NUMBER:** 7497-07-6**APPEARANCE:** Off-white solid**SOLUBILITY:** DMSO (>25 mg/ml) or EtOH (>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 (IC₅₀ >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: Remacle, A.G., *et al.* (2012). *Cancer Res.* **72**, 2339-2349.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**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 Antibody (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)

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