

Certificate of Analysis

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Product Name: NSC 405020

Catalog No.: 4902

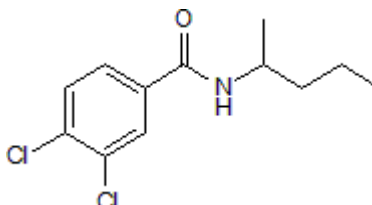
Batch No.: 1

CAS Number: 7497-07-6

IUPAC Name: 3,4-Dichloro-*N*-(1-methylbutyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₅Cl₂NO
Batch Molecular Weight: 260.16
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.4	5.81	5.38
Found	55.42	5.74	5.71

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Membrane type-1 matrix metalloproteinase (MT1-MMP) inhibitor (IC₅₀ > 100 μmol/L). Directly interacts with the hemopexin domain (PEX) of MT1-MMP, affecting homodimerization and repressing its pro-tumorigenic activity in vivo. Displays no effect on the catalytic activity of MT1-MMP or MMP-2.

Physical and Chemical Properties:

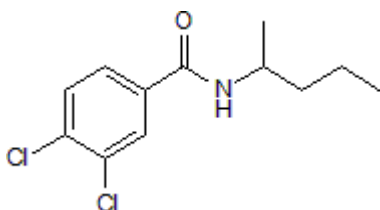
Batch Molecular Formula: C₁₂H₁₅Cl₂NO

Batch Molecular Weight: 260.16

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Remacle *et al* (2012) Novel MT1-MMP small-molecule inhibitors based on insights into hemopexin domain function in tumor growth. *Cancer Res.* **72** 2339. PMID: 22406620.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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