

Product Name: CM 10

Catalog No.: 6933

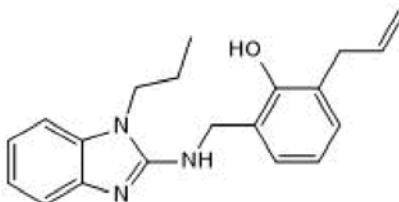
Batch No.: 1

CAS Number: 692269-09-3

IUPAC Name: 2-(2-Propen-1-yl)-6-[[[(1-propyl-1H-benzimidazol-2-yl)amino]methyl]phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₃N₃O
Batch Molecular Weight: 321.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.7	7.27	12.89
Found	74.02	7.17	13.01

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

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Description:

Aldehyde dehydrogenase 1A (ALDH1A) inhibitor (IC₅₀ values are 0.64, 0.74 and 1.7 μM for ALDH1A3, ALDH1A2 and ALDH1A1, respectively). Induces a necroptotic phenotype and preferentially depletes CD133⁺ ovarian cancer stem cells *in vitro*.

Physical and Chemical Properties:

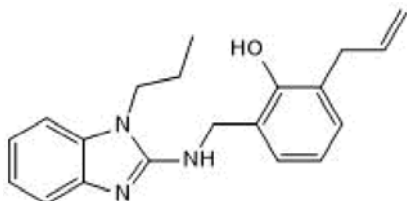
Batch Molecular Formula: C₂₀H₂₃N₃O

Batch Molecular Weight: 321.42

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Chefetz *et al* (2019) A pan-ALDH1A inhibitor induces necroptosis in ovarian cancer stem-like cells. *Cell Rep.* **26** 3061. PMID: 30865894.

Morgan & Hurley (2015) Development of a high-throughput *in vitro* assay to identify selective inhibitors for human ALDH1A1. *Chem.Biol.Interact.* **234** 29. PMID: 25450233.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM with gentle warming

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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