

Product Name: AZ 10417808

Catalog No.: 2172

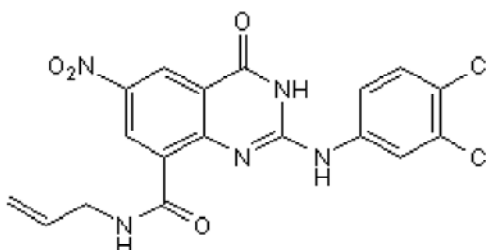
Batch No.: 1

CAS Number: 331645-84-2

IUPAC Name: 2-[(3,4-Dichlorophenyl)amino]-1,4-dihydro-6-nitro-4-oxo-*N*-2-propenyl-8-quinazolinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₃Cl₂N₅O₄
Batch Molecular Weight: 434.23
Physical Appearance: Yellow solid
Solubility: DMSO to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.67 (Dichloromethane:Methanol [4:1])
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.79	3.02	16.12
Found	49.97	3.4	16.04

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

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Description:

Selective non-peptide inhibitor of caspase-3 ($K_i = 247$ nM); displays > 40-fold selectivity over caspases 1, 2, 6, 7 and 8 ($K_i > 10$ μ M). Completely blocks staurosporine-induced intracellular DEVDase activity in SH-SY5Y cells ($IC_{50} = 14.9$ μ M).

Physical and Chemical Properties:

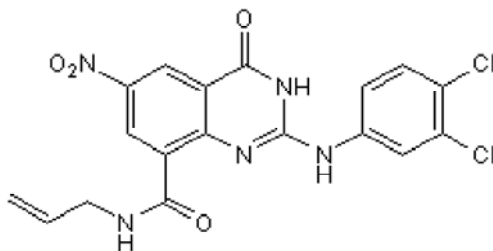
Batch Molecular Formula: $C_{18}H_{13}Cl_2N_5O_4$

Batch Molecular Weight: 434.23

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Scott *et al* (2003) Novel small molecule inhibitors of caspase-3 block cellular and biochemical features of apoptosis. *J.Pharmacol.Exp.Ther.* **304** 433. PMID: 12490620.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

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