

Certificate of Analysis

Product Name: Dynole 34-2

Catalog No.: 4222

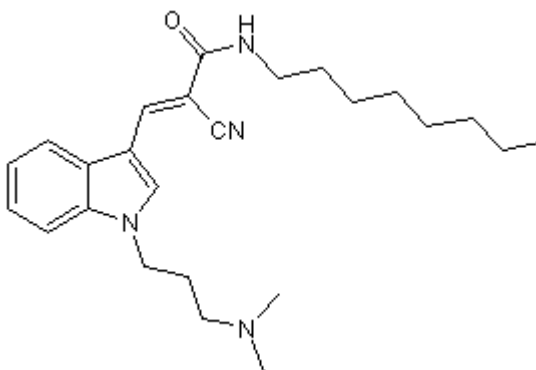
Batch No.: 1

CAS Number: 1128165-88-7

IUPAC Name: 2-Cyano-3-[1-[3-(dimethylamino)propyl]-1H-indol-3-yl]-N-octyl-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₆N₄O
Batch Molecular Weight: 408.58
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.14 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.49	8.88	13.71
Found	73.24	8.85	13.85

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

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Description:

Dynamain I inhibitor ($IC_{50} = 1.3 \mu M$). Inhibits receptor-mediated endocytosis (RME) ($IC_{50} = 5.0 \mu M$).

Physical and Chemical Properties:

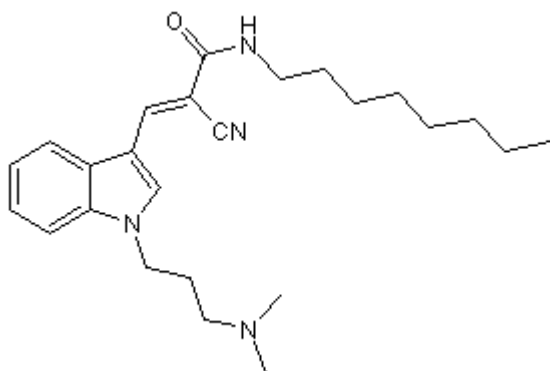
Batch Molecular Formula: $C_{25}H_{36}N_4O$

Batch Molecular Weight: 408.58

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

References:

Hill *et al* (2009) Inhibition of dynamin mediated endocytosis by the dynoles - synthesis and functional activity of a family of indoles. *J.Med.Chem.* **52** 3762. PMID: 19459681.

Hill *et al* (2010) Iminochromene inhibitors of dynamins I and II GTPase activity and endocytosis. *J.Med.Chem.* **53** 4094. PMID: 20426422.

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