

Product Name: AM 6545

Catalog No.: 5443

Batch No.: 4

CAS Number: 1245626-05-4

IUPAC Name: 5-[4-(4-Cyano-1-butyn-1-yl)phenyl]-1-(2,4-dichlorophenyl)-N-(1,1-dioxido-4-thiomorpholinyl)-4-methyl-1H-pyrazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₃Cl₂N₅O₃S·¼H₂O

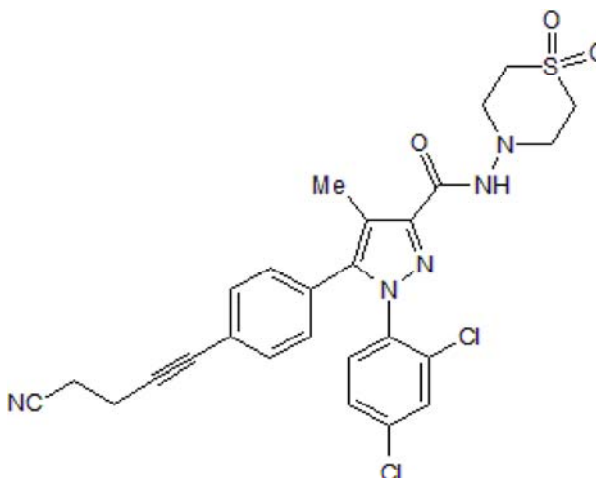
Batch Molecular Weight: 560.96

Physical Appearance: Off-white solid

Solubility: DMSO to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.67	4.22	12.48
Found	55.5	3.9	12.5

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

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Description:

AM 6545 is a high affinity and selective CB₁ antagonist (K_i = 3.3 nM). Exhibits >100-fold selectivity for CB₁ over CB₂ receptors. Improves glucose homeostasis, reverses hepatic steatosis and reduces body weight in diet-induced obese mice. Orally available and non-brain penetrant.

Physical and Chemical Properties:

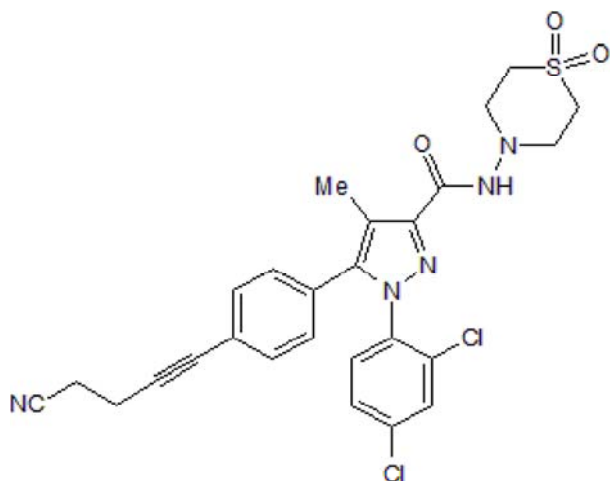
Batch Molecular Formula: C₂₆H₂₃Cl₂N₅O₃S.¼H₂O

Batch Molecular Weight: 560.96

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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:

Bowles et al (2015) A peripheral endocannabinoid mechanism contributes to glucocorticoid-mediated metabolic syndrome. *Proc.Natl.Acad.Sci.U.S.A.* **112** 285. PMID: 25535367.

Tam et al (2010) Peripheral CB₁ cannabinoid receptor blockade improves cardiometabolic risk in mouse models of obesity. *J.Clin.Invest.* **120** 2953. PMID: 20664173.

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