Product Name: AM 6545
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: $\text{C}_{26}\text{H}_{23}\text{Cl}_{2}\text{N}_{5}\text{O}_{3}\text{S}$
   Batch Molecular Weight: 556.46
   Physical Appearance: White solid
   Solubility: DMSO to 20 mM
   Storage: Store at +4°C

2. ANALYTICAL DATA

   HPLC: Shows 99.8% purity
   $^1\text{H} \text{ NMR}$: consistent with structure
   Mass Spectrum: consistent with structure
   Microanalysis:
   
<table>
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<th>% Difference</th>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: AM 6545
Catalog No.: 5443
Batch No.: 3

Description:
High affinity and selective CB₁ antagonist (Kᵢ = 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: C₂₆H₂₁Cl₂N₂O₅S
Batch Molecular Weight: 556.46
Physical Appearance: White solid
Minimum Purity: >98%

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: