

Certificate of Analysis

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Product Name: AMG 517

Catalog No.: 5995

Batch No.: 2

CAS Number: 659730-32-2

IUPAC Name: *N*-[4-[[6-[4-(Trifluoromethyl)phenyl]-4-pyrimidinyl]oxy]-2-benzothiazolyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₃F₃N₄O₂S·¼H₂O

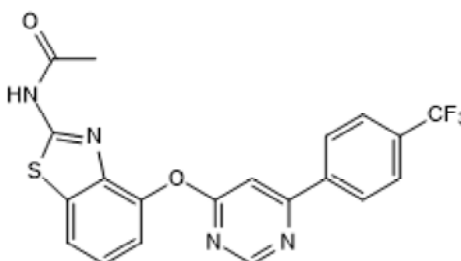
Batch Molecular Weight: 434.91

Physical Appearance: Beige solid

Solubility: DMSO to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	55.23	3.13	12.88
Found	54.91	3.05	12.73

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

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IUPAC Name: N-[4-[[6-[4-(Trifluoromethyl)phenyl]-4-pyrimidinyl]oxy]-2-benzothiazolyl]acetamide

Description:

AMG 517 is a potent TRPV1 antagonist (IC₅₀ = 0.9 nM). Inhibits capsaicin-induced flinching and reverses analgesia in an inflammatory pain model in rats. Orally bioavailable.

Physical and Chemical Properties:

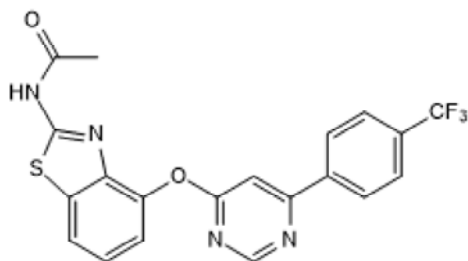
Batch Molecular Formula: C₂₀H₁₃F₃N₄O₂S.½H₂O

Batch Molecular Weight: 434.91

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 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:

Doherty et al (2007) Novel vanilloid receptor-1 antagonists: 2. Structure-activity relationships of 4-oxypyrimidines leading to the selection of a clinical candidate. *J.Med.Chem.* **50** 3515. PMID: 17585750.

Gavva et al (2007) Repeated administration of vanilloid receptor TRPV1 antagonists attenuates hyperthermia elicited by TRPV1 blockade. *J.Pharmacol.Exp.Ther.* **323** 128. PMID: 17652633.

Wang et al (2007) Novel vanilloid receptor-1 antagonists: 3. The identification of a second-generation clinical candidate with improved physicochemical and pharmacokinetic properties. *J.Med.Chem.* **50** 3528. PMID: 17585751.

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