

Product Name: AMG 21629

Catalog No.: 4330

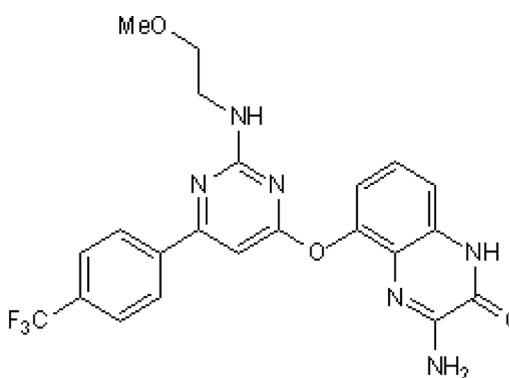
Batch No.: 1

CAS Number: 939040-79-6

IUPAC Name: 3-Amino-5-[[2-[(2-methoxyethyl)amino]-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]oxy]-2(1*H*)-quinoxalinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₉F₃N₆O₃
Batch Molecular Weight: 472.42
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.13 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 97% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.93	4.05	17.79
Found	55.92	4.09	17.38

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

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Description:

AMG 21629 is a potent and selective TRPV1 antagonist. Blocks Ca²⁺ uptake by CHO cells expressing TRPV1 receptors (IC₅₀ values are 0.6 and 0.8 nM for capsaicin (Cat. No. 0462) and acid-induced Ca²⁺ uptake, respectively). Exhibits >4000-fold selectivity for TRPV1 over other TRP channels. Blocks capsaicin-induced flinch response and causes hyperthermia in rats. Orally available and non-CNS penetrant.

Physical and Chemical Properties:

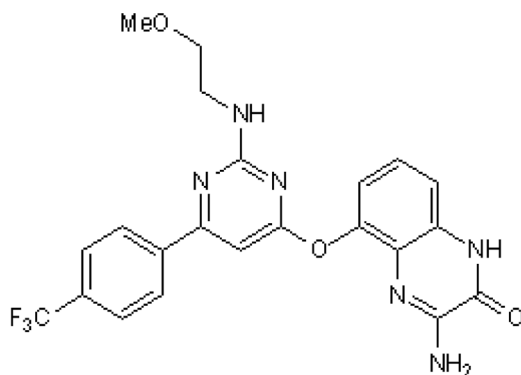
Batch Molecular Formula: C₂₂H₁₉F₃N₆O₃

Batch Molecular Weight: 472.42

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Tamayo et al (2008) Design and synthesis of peripherally restricted transient receptor potential vanilloid 1 (TRPV1) antagonists. *J.Med.Chem.* **51** 2744. PMID: 18386885.

Gavva et al (2007) The vanilloid receptor TRPV1 is tonically activated *in vivo* and involved in body temperature regulation. *J.Neurosci.* **27** 3366. PMID: 17392452.

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