

Certificate of Analysis

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Print Date: Jun 8th 2018

Product Name: AX 15836

Catalog No.: 5843 Batch No.: 1

CAS Number: 2035509-96-5

IUPAC Name:

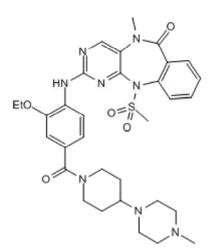
5,11-Dihydro-2-[[2-ethoxy-4-[[4-(4-methyl-1-piperazinyl)-1-piperidinyl]carbonyl]phenyl]amino]-5-methyl,11-(methylsulfonyl)-6*H*-pyrimido[4,5-*b*][1,4]benzodiazepin-6-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{32}H_{40}N_8O_5S.2H_2O$ 684.81 Off White solid 1eq. HCl to 100 mM DMSO to 100 mM ethanol to 100 mM Store at -20°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.11 (Dichloromethane:Methanol [9:1]) Shows 98.3% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 56.12 6.48 16.36 Found 55.88 6.11 16.22

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

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Product Information

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Print Date: Jun 8th 2018

Product Name: AX 15836

Catalog No.: 5843

Batch No.: 1

CAS Number: 2035509-96-5

IUPAC Name:

2030009-90-0

 $\label{eq:2.1.1} 5,11-Dihydro-2-[[2-ethoxy-4-[[4-(4-methyl-1-piperazinyl)-1-piperidinyl]carbonyl]phenyl]amino]-5-methyl,11-(methylsulfonyl)-6H-pyrimido[4,5-b][1,4]benzodiazepin-6-one$

Description:

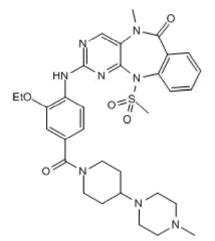
Potent and selective ERK5 inhibitor ($IC_{50} = 8$ nM). Exhibits >1,000-fold selectivity for ERK5 over a panel of over 200 kinases. Also exhibits selectivity over bromodomain BRD4 (K_d = 3,600 nM). Increases vomocytosis in human macrophages in vitro, as well as in an in vivo zebrafish model of cryptococcal disease, reducing spread of infection.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{32}H_{40}N_8O_5S.2H_2O$ Batch Molecular Weight: 684.81 Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

1eq. HCl to 100 mM DMSO to 100 mM ethanol to 100 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:

Gilbert *et al* (2017) Vomocytosis of live pathogens from macrophages is regulated by the atypcial MAP kinase ERK5. Science Advances **3** e1700898.

Lin et al (2016) ERK5 kinase activity is dispensable for cellular immune response and proliferation. Proc.Natl.Acad.Sci.U.S.A. 113 11865. PMID: 27679845.

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