

Certificate of Analysis

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Product Name: IKK 16 Catalog No.: 2539 Batch No.: 2

CAS Number: 1186195-62-9

IUPAC Name: N-(4-Pyrrolidin-1-yl-piperidin-1-yl)-[4-(4-benzo[b]thiophen-2-yl-pyrimidin-2-ylamino)phenyl]carboxamide

hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{28}H_{29}N_5OS.HCI.4H_2O$

Batch Molecular Weight: 524.59
Physical Appearance: Beige solid
Solubility: water to 50 mM
DMSO to 50 mM

Divide to do min

Storage: Desiccate at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.44$ (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows >98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: 14-0735

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 64.11 5.86 13.35 Found 63.88 5.82 13.04

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





Product Information

Print Date: May 20th 2014

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Description:

Selective inhibitor of IkB kinase (IKK) (IC $_{50}$ values are 40, 70 and 200 nM for IKK β , IKK complex and IKK α respectively). Inhibits TNF- α -stimulated IkB degradation and expression of adhesion molecules E-selectin, ICAM and VCAM (IC $_{50}$ values are 1.0, 0.5, 0.3 and 0.3 μ M respectively). Inhibits LPS-induced TNF- α release in vivo and neutrophil extravasion in thioglycollate-induced peritonitis.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{28}H_{29}N_5OS.HCI.1/4H_2O$

Batch Molecular Weight: 524.59 Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 50 mM DMSO to 50 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:

Waelchli et al (2006) Design and preparation of 2-benzoamido-pyrimidines as inhibitors of IKK. Bioorg.Med.Chem.Lett. 16 108. PMID: 16236504.

