

Product Name: BMS 345541

Catalog No.: 4806

Batch No.: 1

CAS Number: 547757-23-3

IUPAC Name: *N*¹-(1,8-Dimethylimidazo[1,2-*a*]quinoxalin-4-yl)-1,2-ethanediamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₇N₅.HCl.H₂O

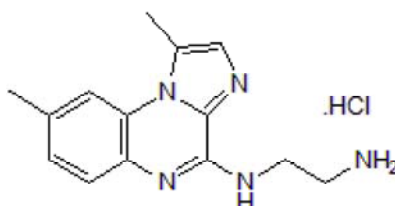
Batch Molecular Weight: 309.8

Physical Appearance: Pale yellow solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Methanol 100%)

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.28	6.51	22.61
Found	54.09	6.28	22.68

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: BMS 345541

Catalog No.: 4806

Batch No.: 1

CAS Number: 547757-23-3

IUPAC Name: N¹-(1,8-Dimethylimidazo[1,2-a]quinoxalin-4-yl)-1,2-ethanediamine hydrochloride

Description:

Selective allosteric inhibitor of IKK (IC₅₀ values are 0.3 and 4.0 μM for IKKβ and IKKα respectively). Exhibits no effect against a panel of 15 other kinases. Attenuates LPS-induced cytokine production in vitro and blocks NFκB dependent transcription in mice. Also suppresses joint destruction in a mouse model of arthritis.

Physical and Chemical Properties:

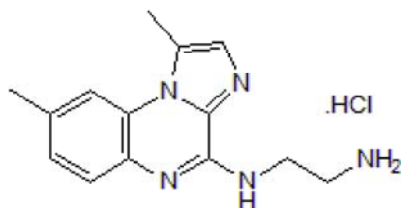
Batch Molecular Formula: C₁₄H₁₇N₅.HCl.H₂O

Batch Molecular Weight: 309.8

Physical Appearance: Pale yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO 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:

De Silva *et al* (2010) Inhibition of choriodecidual cytokine production and inflammatory gene expression by selective IκB kinase (IKK) inhibitors. *Br.J.Pharmacol.* **160** 1808. PMID: 20649582.

Pattoli *et al* (2005) Collagen and aggrecan degradation is blocked in interleukin-1-treated cartilage explants by an inhibitor of IκB kinase through suppression of metalloproteinase expression. *J.Pharmacol.Exp.Ther.* **315** 382. PMID: 16009742.

Burke *et al* (2003) BMS-345541 is a highly selective inhibitor of IκB kinase that binds at an allosteric site of the enzyme and blocks NF-κB-dependent transcription in mice. *J.Biol.Chem.* **278** 1450. PMID: 12403772.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956