

Product Name: CJ 033466

Catalog No.: 3089

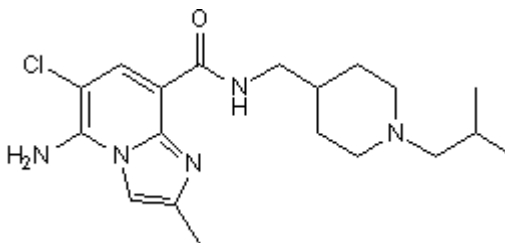
Batch No.: 3

CAS Number: 519148-48-2

IUPAC Name: 5-Amino-6-chloro-2-methyl-N-[[1-(2-methylpropyl)-4-piperidiny]methyl]-imidazo[1,2-a]pyridine-8-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₈ClN₅O
Batch Molecular Weight: 377.91
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.18 (Dichloromethane:Methanol [96:4])
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.39	7.47	18.58
Found	60.13	7.36	18.41

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

Product Name: CJ 033466

Catalog No.: 3089

Batch No.: 3

CAS Number: 519148-48-2

IUPAC Name: 5-Amino-6-chloro-2-methyl-N-[[1-(2-methylpropyl)-4-piperidiny]methyl]-imidazo[1,2-a]pyridine-8-carboxamide

Description:

Potent and selective 5-HT₄ partial agonist (EC₅₀ = 0.927 nM). Displays > 1000-fold selectivity for 5-HT₄ over other 5-HT and D₂ receptors. Exhibits gastroprokinetic effects in vivo following oral administration. Weakly blocks hERG (IC₅₀ = 2.6 μM).

Physical and Chemical Properties:

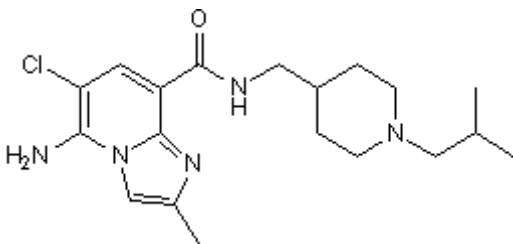
Batch Molecular Formula: C₁₉H₂₈ClN₅O

Batch Molecular Weight: 377.91

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

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:

Toga et al (2007) The 5-HT₄ agonists cisapride, mosapride, and CJ-033466, a novel potent compound, exhibit different human ether-a-go-go-related gene (hERG)-blocking activities. *J.Pharmacol.Sci.* **105** 207. PMID: 17928736.

Mikami et al (2008) 5-Amino-6-chloro-N-[[1-(2-methylpropyl)pyrrolidin-4-yl]methyl]-2-methylimidazo[1,2-a]pyridine-8-carboxamide (CJ-033,466), a novel and selective 5-hydroxytryptamine₄ receptor partial agonist: pharmacological profile in vitro and gastroprokinetic effect in conscious dogs. *J.Pharmacol.Exp.Ther.* **325** 190. PMID: 18198343.

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