

Certificate of Analysis

Product Name: INCB 3284 dimesylate

Catalog No.: 4306

Batch No.: 2

CAS Number: 887401-93-6

IUPAC Name: *N*-[2-[[[(3*R*)-1-[*trans*-4-Hydroxy-4-(6-methoxy-3-pyridinyl)cyclohexyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-(trifluoromethyl)benzamide dimethanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₁F₃N₄O₄·2CH₄O₃S

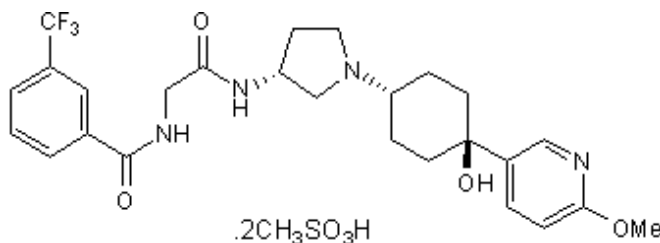
Batch Molecular Weight: 712.76

Physical Appearance: Off-white solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Chloroform:Methanol:Ammonia soln. [9:1:0.1])

HPLC: Shows 98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.18	5.51	7.86
Found	46.95	5.36	8.01

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Description:

Potent, selective hCCR2 antagonist. Exhibits potent antagonism against monocyte chemoattractant molecule binding to hCCR2 and chemotaxis activity (IC₅₀ values are 3.7 and 4.7 nM respectively). Also displays weak hERG activity; inhibits the hERG potassium current (IC₅₀ = 84µM). Orally bioavailable.

Physical and Chemical Properties:

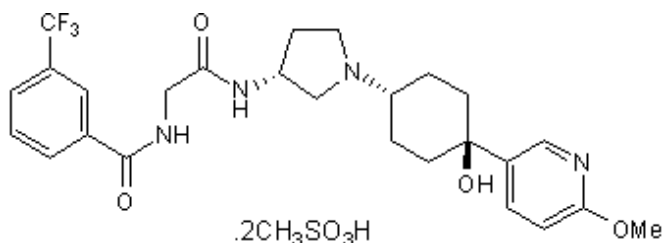
Batch Molecular Formula: C₂₆H₃₁F₃N₄O₄·2CH₄O₃S

Batch Molecular Weight: 712.76

Physical Appearance: Off-white solid

Minimum Purity: >98%

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:

Xue *et al* (2011) Discovery of INCB3284, a potent, selective, and orally bioavailable hCCR2 antagonist. ACS.Med.Chem.Lett. 2 450.

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