

Product Name: BRD 0539

Catalog No.: 7153

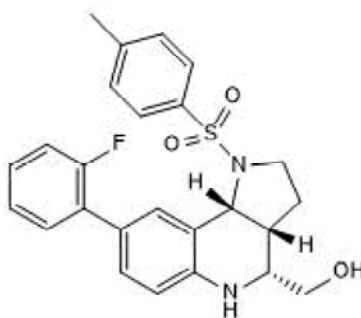
Batch No.: 1

CAS Number: 1403838-79-8

IUPAC Name: (3a*R*,4*R*,9*bR*)-8-(2-Fluorophenyl)-2,3,3a,4,5,9*b*-hexahydro-1-[(4-methylphenyl)sulfonyl]-1*H*-pyrrolo[3,2-*c*]quinoline-4-methanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₂₅ FN ₂ O ₃ S.
Batch Molecular Weight:	452.54
Physical Appearance:	Pale pink to beige solid
Solubility:	DMSO to 100 mM ethanol to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	66.35	5.57	6.19
Found	66.32	5.56	6.21

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

Product Name: BRD 0539

Catalog No.: 7153

Batch No.: 1

CAS Number: 1403838-79-8

IUPAC Name: (3a*R*,4*R*,9*bR*)-8-(2-Fluorophenyl)-2,3,3a,4,5,9*b*-hexahydro-1-[(4-methylphenyl)sulfonyl]-1*H*-pyrrolo[3,2-*c*]quinoline-4-methanol

Description:

BRD 0539 is a cell-permeable and reversible SpCas9 (*Streptococcus pyogenes* Cas9) inhibitor. BRD 0539 shows dose-dependent SpCas9 inhibition in an in vitro DNA cleavage assay (apparent IC₅₀ = 22 μM) and in an eGFP disruption assay (apparent EC₅₀ = 11 μM). Allows dose and temporal control of SpCas9-based systems.

Physical and Chemical Properties:

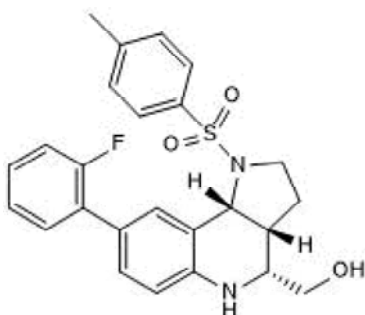
Batch Molecular Formula: C₂₅H₂₅FN₂O₃S.

Batch Molecular Weight: 452.54

Physical Appearance: Pale pink to beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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.

Licensing Information:

Sold under licence from the Broad Institute

References:

Maji *et al* (2019) A high-throughput platform to identify small-molecule inhibitors of CRISPR-Cas9. *Cell* **177** 1067. PMID: 31051099.

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