

**Product Name:** BRD 0539

**Catalog No.:** 7153

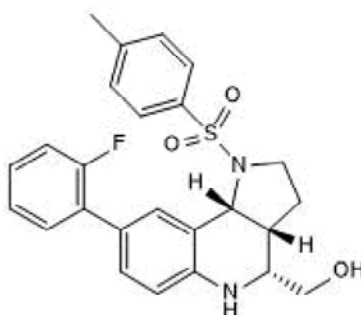
**Batch No.:** 1

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 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  
**<sup>1</sup>H 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, reversible, specific SpCas9 (Streptococcus pyogenes Cas9) inhibitor. BRD 0539 shows dose-dependent SpCas9 inhibition in an in vitro DNA cleavage assay (apparent IC<sub>50</sub> = 22 μM) and in an eGFP disruption assay (apparent EC<sub>50</sub> = 11 μM).

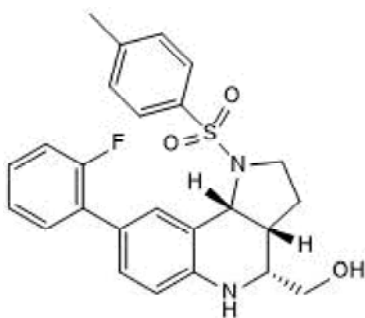
**Physical and Chemical Properties:**

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