

# BMS-538203

Catalog No: tcsc2094



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

543730-41-2

**Formula:**

$C_{12}H_{12}FNO_5$

**Pathway:**

Metabolic Enzyme/Protease;Anti-infection

**Target:**

HIV Integrase;HIV

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 54$  mg/mL (200.57 mM)

**Observed Molecular Weight:**

269.23

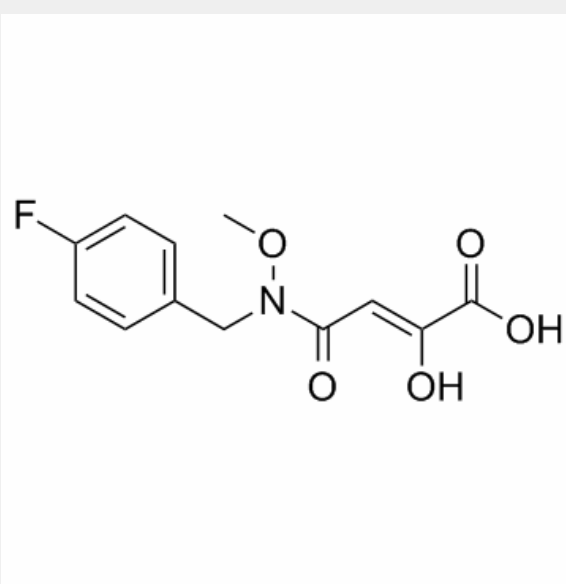
## Product Description

BMS-538203 is a highly efficient HIV integrase inhibitor and antiviral agent.

IC50 value:

Target: HIV integrase

In the current study we demonstrate a hit-to-clinical candidate pathway that resulted in 50- and 2000-fold improvements in enzyme-inhibition and antiviral activity without an increase in molecular weight or change in molecular topology. The original hit , 1 (mw = 268) was optimized in a stepwise manner. Potential covalent protein-binding moieties were removed by reducing the number of the ketone groups. High enzyme inhibition activity was achieved by optimizing the aryl-portion of the molecule. Protein binding was reduced by replacing the standard amide by the corresponding methyl-hydroxamide. This eventually led to the discovery of BMS-538203 compound 2 (mw = 269) a highly efficient inhibitor and antiviral agent.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!