



## NIH AIDS Reagent Program

20301 Century Boulevard  
Building 6, Suite 200  
Germantown, MD 20874  
USA

Phone: 240 686 4740  
Fax: 301 515 4015  
aidsreagent.org

### DATA SHEET

<b>Reagent:</b>	Maraviroc (Selzentry)
<b>Catalog Number:</b>	11580
<b>Lot Number:</b>	15057WB-67
<b>Release Category:</b>	A
<b>Provided:</b>	20 mg
<b>Chemical Name:</b>	4,4-difluoro-N-{(1S)-3-[3-(3-isopropyl-5-methyl-4H-1,2,4-triazol-4-yl)-8-azabicyclo[3.2.1]oct-8-yl]-1-phenylpropyl}cyclohexanecarboxamide
<b>Empirical Formula:</b>	C <sub>29</sub> H <sub>41</sub> F <sub>2</sub> N <sub>5</sub> O
<b>Molecular Weight:</b>	513.7 g/mol
<b>CAS Num:</b>	376348-65-1
<b>Solubility:</b>	Highly soluble across the pH range of 1 to 7.5.
<b>Mechanical Action:</b>	Maraviroc is an entry inhibitor. Specifically, maraviroc blocks the chemokine receptor CCR5 which HIV uses as a coreceptor to bind and enter a human helper T cell. Because HIV can also use another coreceptor, CXCR4, an HIV tropism test such as a trofile assay must be performed to determine if the drug will be effective.
<b>Special Characteristics:</b>	<b>CAUTION: Toxicological properties are not fully understood. Use in fume hood or well ventilated area. Individuals must use prudent practices when handling or using this compound. Store in sealed containers. This material is for experimental purposes only.</b>

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**Recommended Storage:** Room temperature. Once resuspended, working aliquots can be stored at  $-20^{\circ}\text{C}$ .

**Contributor:** NIAID, DAIDS

**References:** Biswas P, Tambussi G, Lazzarin A (2007). "Access denied? The status of co-receptor inhibition to counter HIV entry". *Expert Opin Pharmacother* 8 (7): 923–33.

Stephenson J (2007). "Researchers buoyed by novel HIV drugs: will expand drug arsenal against resistant virus". *JAMA* 297 (14): 1535–6.

Emmelkamp JM, Rockstroh JK (2007). "CCR5 antagonists: comparison of efficacy, side effects, pharmacokinetics and interactions--review of the literature". *Eur. J. Med. Res.* 12 (9): 409–17.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Maraviroc from NIAID, DAIDS (cat #11580)."

**This compound is restricted for "research purposes only" and is limited to 40 mg per requester per year. Not available for release to commercial organizations outside of the USA.**

**Recipient agrees that the reagent (Maraviroc) use is permitted only as a standard for in vitro and/or studies in animals for inhibition of HIV replication.**

**Last Updated** July 24, 2018

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