

# Maraviroc PK Fact Sheet

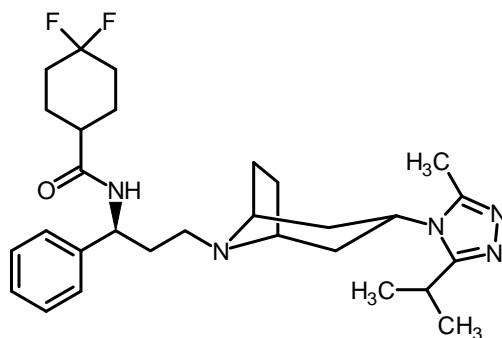
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## Details

<b>Generic Name</b>	Maraviroc
<b>Trade Name</b>	Celsentri®, Selzentry®
<b>Class</b>	Entry Inhibitor- CCR5 Antagonist
<b>Molecular Weight</b>	513.67
<b>Structure</b>	



## Summary of Key Pharmacokinetic Parameters

<b>Linearity/non-linearity</b>	The pharmacokinetics of oral maraviroc are not dose proportional over the dose range.
<b>Plasma half life</b>	13.2 h (30 mg IV administration)
<b>C<sub>max</sub></b>	888 ng/ml (300 mg twice daily, healthy subjects) 618 ng/ml (asymptomatic HIV patients); 266 ng/ml (treatment experienced HIV patients) 332 ng/ml (150 mg twice daily plus CYP3A inhibitor)
<b>C<sub>min</sub></b>	43.1 ng/ml (300 mg twice daily, healthy subjects) 33.6 ng/ml (asymptomatic HIV patients); 37.2 ng/ml (treatment experienced HIV patients) 101 ng/ml (150 mg twice daily plus CYP3A inhibitor):
<b>AUC</b>	2908 ng.h/ml (300 mg twice daily, healthy subjects) 2550 ng.h/ml (asymptomatic HIV patients); 1513 ng.h/ml (treatment experienced HIV patients) 2463 ng.h/ml (150 mg twice daily plus CYP3A inhibitor)
<b>Bioavailability</b>	23% (100 mg dose). Predicted to be 33% for 300 mg dose.
<b>Absorption</b>	Maraviroc can be taken with or without food at the recommended doses. Coadministration of a 300 mg tablet with a high fat breakfast reduced maraviroc C <sub>max</sub> and AUC by 33% in healthy volunteers. There were no food restrictions in the studies that demonstrated the efficacy and safety of maraviroc.
<b>Protein Binding</b>	~ 76%
<b>Volume of Distribution</b>	~194 L
<b>CSF:Plasma ratio</b>	Unknown
<b>Semen:Plasma ratio</b>	Unknown
<b>Renal Clearance</b>	~8% as unchanged drug (oral administration) and ~22% as unchanged drug (IV administration). However, in the presence of metabolic inhibitors, renal clearance may account for up to 70%.
<b>Renal Impairment</b>	Safety and efficacy have not been specifically studied in patients with renal impairment, therefore maraviroc should be used with caution in this population. Dosage adjustment is only recommended in patients with renal impairment also receiving potent CYP3A4 inhibitors.
<b>Hepatic Impairment</b>	Limited data are available in hepatic impairment; Maraviroc should be used with caution.

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## Metabolism and Distribution

<i>Metabolised by</i>	CYP3A4
<i>Inducer of</i>	Unlikely at clinically relevant concentrations.
<i>Inhibitor of</i>	Unlikely at clinically relevant concentrations; potential inhibition of CYP2D6 at higher doses. Effects on P-glycoprotein have not been evaluated, an inhibitory effect can not be excluded.
<i>Transported by</i>	P-glycoprotein

## References

*Unless otherwise stated (see below), information is from:*

Celsentri® Summary of Product Characteristics, ViiV Healthcare UK Ltd.

Selzentry™ US Prescribing Information, ViiV Healthcare.