

## Accepted Manuscript

Title: Simultaneous determination of probe drugs, metabolites, inhibitors and inducer in human plasma by liquid chromatography/tandem mass spectrometry and its application to pharmacokinetic study

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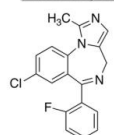
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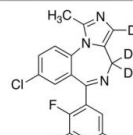
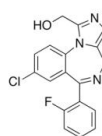
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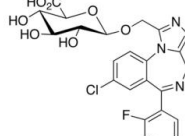


**CYP3A4 probe drug, metabolites and deuterated internal standards**

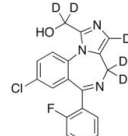
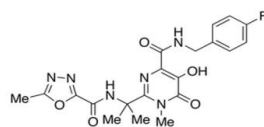
Midazolam

Midazolam-d<sub>5</sub>

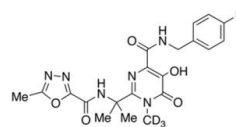
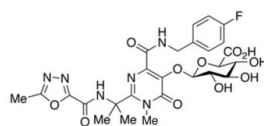
1'-Hydroxy midazolam



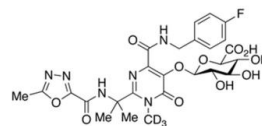
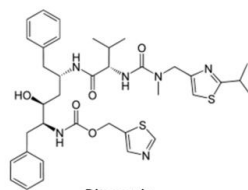
1'-Hydroxy midazolam-β-D-glucuronide

1'OH-Midazolam-d<sub>5</sub>**UGT1A1 probe drug, metabolite and deuterated internal standards**

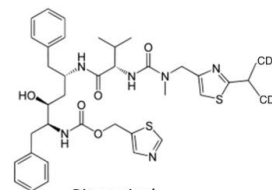
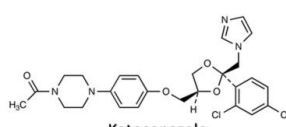
Raltegravir

Raltegravir-d<sub>3</sub>

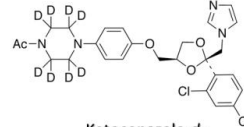
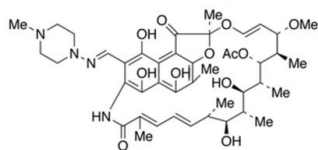
Raltegravir β-D-glucuronide

Raltegravir-d<sub>3</sub> β-D-glucuronide**Inhibitors and deuterated internal standards**

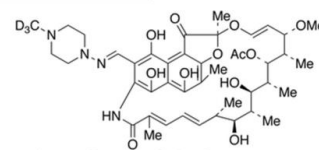
Ritonavir

Ritonavir-d<sub>6</sub>

Ketoconazole

Ketoconazole-d<sub>8</sub>**Inducer and deuterated internal standard**

Rifampicin

Rifampicin-d<sub>3</sub>

We developed a robust analytical LC/MS-MS method to simultaneously quantify probes, inducer and inhibitor of important drug metabolism enzymes shown above.

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