

## Product Data Sheet

Product Name: Elvitegravir-d6

Cat. No.: GC47288

### Chemical Properties

Cas. No. N/A

SMILES C1C=CC=CC(C([2H])([2H])C2=CC(C(C(C(O)=O)=CN3[C@@H](C(C)C)CO)=O)=C3C([2H])=C2OC([2H])([2H])[2H])=C1F.C1C4=CC=CC(C([2H])([2H])C5=C([2H])C(C(C(C(O)=O)=CN6[C@@H](C(C)C)CO)=O)=C6C=C5OC([2H])([2H])[2H])=C4F.C1C7=CC=CC(C([2H])([2H])C8=CC(C(C(C(O)=O)=C([2H])N9[C@@H](C(C)C)CO)=O)=C9C=C8OC([2H])([2H])[2H])=C7F

Formula C<sub>23</sub>H<sub>17</sub>ClD<sub>6</sub>FNO<sub>5</sub>

M.Wt 453.9

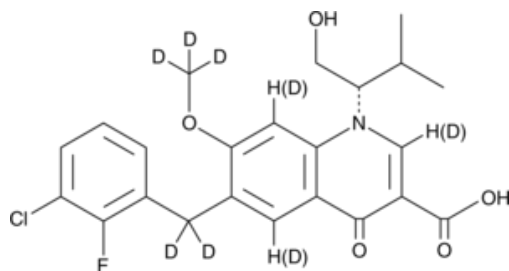
Solubility DMSO: slightly soluble, Methanol: slightly soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Elvitegravir-d<sub>6</sub> is intended for use as an internal standard for the quantification of elvitegravir by GC- or LC-MS. Elvitegravir is a quinolone antibiotic that inhibits HIV-1 integrase (IC<sub>50</sub> = 7.2 nM).<sup>1</sup> It has antiviral activity against laboratory strains and clinical isolates of HIV-1 (EC<sub>50</sub>s = 0.1-1.26 nM) in MAGI cells and HIV-2 (EC<sub>50</sub>s = 0.3-0.9) in peripheral blood mononuclear cells (PBMCs).<sup>1,2</sup> Formulations containing elvitegravir have been used in the treatment of HIV infections.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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1.Sato, M., Motomura, T., Aramaki, H., et al.Novel HIV-1 integrase inhibitors derived from quinolone antibioticsJ. Med. Chem.49(5)1506-1508(2006) 2.Roquebert, B., Damond, F., Collin, G., et al.HIV-2 integrase gene polymorphism and phenotypic susceptibility of HIV-2 clinical isolates to the integrase inhibitors raltegravir and elvitegravir in vitroJ. Antimicrob. Chemother.62(5)914-920(2008)

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