

## Product Data Sheet

Product Name: Vapendavir-d5

Cat. No.: GC48242

### Chemical Properties

Cas. No. 2738376-73-1

SMILES CC1=CC=C(N=N1)N(CC2)CCC2CCOC3=CC=C(C(OC([2H])([2H])C([2H])([2H])[2H])=NO4)C4=C3

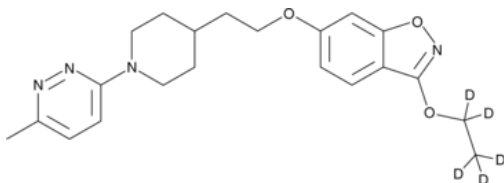
Formula C<sub>21</sub>H<sub>21</sub>D<sub>5</sub>N<sub>4</sub>O<sub>3</sub> M.Wt 387.5

Solubility DMSO: Soluble, Methanol: Soluble Storage Store at -20°C

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

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

Structure



### Background

Vapendavir-d<sub>5</sub> is intended for use as an internal standard for the quantification of vapendavir by GC- or LC-MS. Vapendavir is a capsid-binding antiviral agent.<sup>1,2</sup> It binds to a pocket in the human rhinovirus (HRV) strain HRV2 VP1 capsid protein and inhibits the cytopathic effects of HRV2 and HRV14 in HeLa Ohio cells (EC<sub>50</sub>s = 1 and 5 ng/ml, respectively), as well as in a panel of 39 HRV clinical isolates (median EC<sub>50</sub> = 7.3 ng/ml).<sup>1</sup> Vapendavir inhibits replication in a panel of 21 enterovirus 71 (EV71) isolates with an average EC<sub>50</sub> value of 0.7 μM.<sup>2</sup>

1. Feil, S.C., Hamilton, S., Krippner, G.Y., et al. An orally available 3-ethoxybenzisoxazole capsid binder with clinical activity against human rhinovirus ACS Med. Chem. Lett. 3(4)303-307(2012)

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

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2. Tijsma, A., Franco, D., Tucker, S., et al. The capsid binder vapendavir and the novel protease inhibitor SG85 inhibit enterovirus 71 replication. *Antimicrob. Agents Chemother.* 58(11):6990-6992 (2014)

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