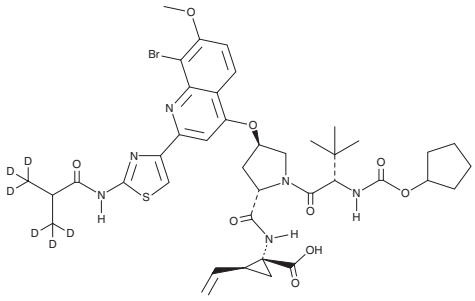
# PRODUCT INFORMATION

## Faldaprevir-$d_6$

*Item No. 31480*

**CAS Registry No.:** 2750534-88-2
**Formal Name:** (1R,2S)-N-[(cyclopentyloxy)carbonyl]-3-methyl-L-valyl-(4R)-4-[[8-bromo-7-methoxy-2-[2-[(2-methyl-$d_3$-1-oxopropyl)amino-3,3,3-$d_3$]-4-thiazolyl]-4-quinolinyl]oxy]-L-prolyl-1-amino-2-ethenyl-cyclopropanecarboxylic acid
**Synonym:** BI-201335-$d_6$
**MF:** $C_{40}H_{43}BrD_6N_6O_9S$
**FW:** 875.9
**Chemical Purity:** ≥98% (Faldaprevir)
**Deuterium Incorporation:** ≥99% deuterated forms ($d_1$-$d_6$); ≤1% $d_0$
**Supplied as:** A solid
**Storage:** -20°C
**Stability:** ≥4 years



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

## Laboratory Procedures

Faldaprevir-$d_6$ is intended for use as an internal standard for the quantification of faldaprevir by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Faldaprevir-$d_6$ is supplied as a solid. A stock solution may be made by dissolving the faldaprevir-$d_6$ in the solvent of choice, which should be purged with an inert gas. Faldaprevir-$d_6$ is soluble in the organic solvent DMSO.

## Description

Faldaprevir is an inhibitor of hepatitis C virus (HCV) non-structural protease 3/4A (NS3/4A; $IC_{50}$ = 3 nM for the HCV genotype 1b enzyme).[1] It inhibits genotype 1a and 1b HCV RNA replication in replicon assays ($EC_{50}$s = 6.5 and 3.1 nM, respectively).[2]

## References


1. Llinàs-Brunet, M., Bailey, M.D., Goudreau, N., *et al*. Discovery of a potent and selective noncovalent linear inhibitor of the hepatitis C virus NS3 protease (BI 201335). *J. Med. Chem.* **53(17)**, 6466-6476 (2010).
2. White, P.W., Llinàs-Brunet, M., Amad, M., *et al*. Preclinical characterization of BI 201335, a C-terminal carboxylic acid inhibitor of the hepatitis C virus NS3-NS4A protease. *Antimicrob. Agents Chemother.* **54(1)**, 4611-4618 (2010).





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