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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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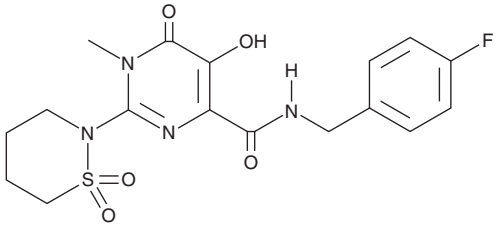
PRODUCT INFORMATION

HIV-1 Integrase Inhibitor 1

Item No. 36807

CAS Registry No.:	729607-74-3
Formal Name:	N-[(4-fluorophenyl)methyl]-1,6-dihydro-5-hydroxy-1-methyl-6-oxo-2-(tetrahydro-1,1-dioxido-2H-1,2-thiazin-2-yl)-4-pyrimidinecarboxamide
Synonym:	BMS-707035
MF:	$C_{17}H_{19}FN_4O_5S$
FW:	410.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 253, 302 nm
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

HIV-1 integrase inhibitor 1 is supplied as a solid. A stock solution may be made by dissolving the HIV-1 integrase inhibitor 1 in the solvent of choice, which should be purged with an inert gas. HIV-1 integrase inhibitor 1 is slightly soluble in DMSO.

Description

HIV-1 integrase inhibitor 1 is an inhibitor of HIV-1 integrase DNA strand transfer (IC_{50} = 14 nM).[1] It is also an inhibitor of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) main protease (M^{pro}), also known as 3C-like protease ($3CL^{pro}$), when used at a concentration of 10 µM in a fluorescence-based assay.[2] HIV-1 integrase inhibitor 1 decreases SARS-CoV-2 replication (EC_{50} = 0.27 µM) and reduces particle-forming units (PFUs) in infected Huh7.5 cells in a concentration-dependent manner.

References

1. Langley, D.R., Samanta, H.K., Lin, Z., *et al.* The terminal (catalytic) adenosine of the HIV LTR controls the kinetics of binding and dissociation of HIV integrase strand transfer inhibitors. *Biochemistry* **47(51)**, 13481-13488 (2008).
2. Narayanan, A., Narwal, M., Majowicz, S.A., *et al.* Identification of SARS-CoV-2 inhibitors targeting Mpro and PLpro using in-cell-protease assay. *Commun. Biol.* **5(1)**, 169 (2022).

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