

Product Name	: 1E7-03
Synonyms	: 1E703; 1E7 03; 1E7-03
Cat No.	: M12234
CAS Number	: 1565845-92-2
Molecular Formula	: C ₂₈ H ₂₉ N ₃ O ₆
Formula Weight	: 503.56
Chemical Name	: 1-(3-ethylureido)-1-oxopropan-2-yl (Z)-3-(3,4-dimethoxybenzylidene)-2,3-dihydro-1H-cyclopenta[b]quinoline-9-carboxylate
Description	: 1E7-03 is a small molecule targeting the RVxF interacting site on PP1, inhibits HIV-1, Ebolavirus (EBOV), and Venezuelan equine encephalitis virus (VEEV, EC ₅₀ =0.6 μM); disrupts the interaction of Tat with PP1, inhibits HIV-1 transcription with IC ₅₀ of 2 μM, with no cytotoxicity and displays a plasma half-life greater than 8 h in mice; inhibits EBOV transcription and strongly induces VP30 phosphorylation in the N-terminal Ser residues 29-46.
Pathway	: Microbiology/Virology
Target	: HIV
Receptor	: HIV
Solubility	: —
SMILES	: <chem>O=C(C1=C(CC/C2=C\C3=CC=C(OC)C(OC)=C3)C2=NC4=CC=CC=C14)OC(C)C(NC(NCC)=O)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Carey BD, et al. J Virol. 2018 May 16. pii: JVI.02068-17. 2. Ilinykh PA, et al. J Biol Chem. 2014 Aug 15;289(33):22723-38. 3. Ammosova T, et al. Br J Pharmacol. 2014 Nov;171(22):5059-75. 4. Lin X, et al. Oncotarget. 2017 Aug 7;8(44):76749-76769.