

Product Name	: USP7-IN-4
Synonyms	: R)-USP-IN-4; USP7 inhibitor 4
Cat No.	: M13500
CAS Number	: 2196243-57-7
Molecular Formula	: C ₂₉ H ₃₄ N ₆ O ₃
Formula Weight	: 514.63
Chemical Name	: (R)-3-(4-(aminomethyl)phenyl)-6-((4-hydroxy-1-(3-phenylbutanoyl)piperidin-4-yl)methyl)-2-methyl-2,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one
Description	: (R)-USP-IN-4 is a highly potent, selective, allosteric USP7 inhibitor with IC ₅₀ of 6 nM in FP assays; also shows high potency in an alternative assay using the Ub-Rh110 substrate (IC ₅₀ =1.5 nM) and K _d of 2.0 nM; displays high selectivity against other DUBs, proteases and kinases; demonstrates highly potent target engagement in cells (EC ₅₀ =49 nM), with no off-target activity against USP47, causes nongenotoxic stabilization of p53 and decreased levels of MDM2 in HCT116 cells.
Pathway	: Proteasome/Ubiquitin
Target	: DUB
Receptor	: DUB
Solubility	: 10 mM in DMSO
SMILES	: <chem>O=C1C2=NN(C)C(C3=CC=C(CN)C=C3)=C2N=CN1CC4(O)CCN(C(C[C@H](C5=CC=CC=C5)C)=O)CC4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Gavory G, et al. Nat Chem Biol. 2018 Feb;14(2):118-125.

