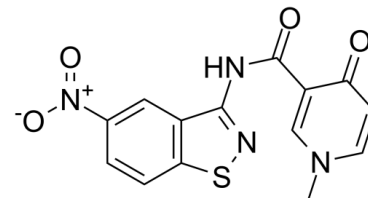


## Data Sheet

<b>Product Name:</b>	HIV-1 inhibitor-6
<b>Cat. No.:</b>	CS-0159802
<b>CAS No.:</b>	1821309-39-0
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>10</sub> N <sub>4</sub> O <sub>4</sub> S
<b>Molecular Weight:</b>	330.32
<b>Target:</b>	HIV
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	10 mM in DMSO



### BIOLOGICAL ACTIVITY:

HIV-1 inhibitor-6 (compound 9), a diheteroarylamide-based compound, is a potent **HIV-1 pre-mRNA alternative splicing** inhibitor. HIV-1 inhibitor-6 blocks HIV replication. HIV-1 inhibitor-6 is active against wild-type HIV-1<sub>IIIB</sub> (subtype B, X4-tropic) and HIV-1 97USSN54 (subtype A, R5-tropic) with EC<sub>50</sub>s of 0.6 μM and 0.9 μM, respectively. HIV-1 inhibitor-6 inhibits HIV strains resistant to drugs targeting HIV reverse transcriptase, protease, integrase, and coreceptor CCR5 with EC<sub>50</sub>s ranging from 0.9 to 1.5 μM<sup>[1]</sup>.

### References:

[1]. Peter K Cheung, et al. A Parallel Synthesis Approach to the Identification of Novel Diheteroarylamide-Based Compounds Blocking HIV Replication: Potential Inhibitors of HIV-1 Pre-mRNA Alternative Splicing. *J Med Chem.* 2016 Mar 10;59(5):1869-79.

### CAIndexNames:

3-Pyridinecarboxamide, 1,4-dihydro-1-methyl-N-(5-nitro-1,2-benzisothiazol-3-yl)-4-oxo-

### SMILES:

O=C(C1=CN(C)C=CC1=O)NC2=NSC3=C2C=C([N+][O-])C=C3

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

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