

GNE-6776

Catalog No: tcsc0031103



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

2009273-71-4

Formula:

$C_{20}H_{20}N_4O_2$

Pathway:

Cell Cycle/DNA Damage

Target:

Deubiquitinase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 310 mg/mL (889.78 mM)

Observed Molecular Weight:

348.4

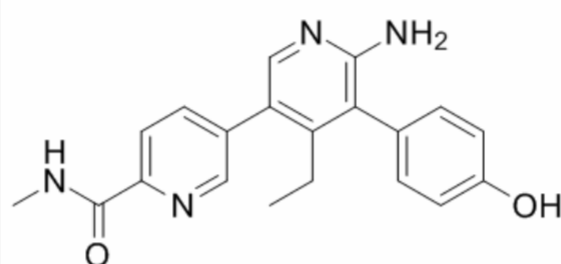
Product Description

GNE-6776 is a selective **USP7** inhibitor.

IC50 & Target: USP7^[1]

In Vitro: GNE-6776 non-covalently targets USP7 12 Å distant from the catalytic cysteine. GNE-6776 attenuates ubiquitin binding and thus inhibits USP7 deubiquitinase activity. GNE-6776 interacts with acidic residues that mediate hydrogen-bond interactions with the ubiquitin Lys48 side chain. GNE-6776 targets cellular USP7, MDM2, and p53 signalling pathways. GNE-6776 selectively inhibits recombinant USP7 relative to 36 other deubiquitinases. GNE-6776 remains selective even at 100 μM, a more than sixfold higher concentration than used in cellular assays. GNE-6776 significantly inhibits USP7 while remaining selective against 44-47 other detected deubiquitinases^[1].

In Vivo: Although efficacious exposure is only transiently achieved, GNE-6776 causes modest, although significant, EOL-1 xenograft growth delay^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!