

# 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 :  $\geq$  310 mg/mL (889.78 mM)

**Observed Molecular Weight:**

348.4

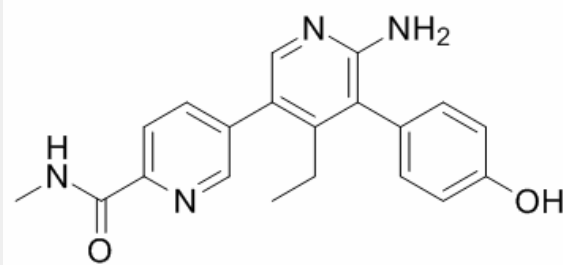
## Product Description

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

IC50 & Target: USP7<sup>[1]</sup>

**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<sup>[1]</sup>.

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



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