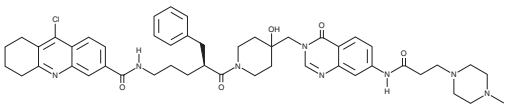
PRODUCT INFORMATION

XL177A

Item No. 46302

CAS Registry No.:	2417089-74-6
Formal Name:	9-chloro-5,6,7,8-tetrahydro-N-[(4S)-5-[4-hydroxy-4-[[7-[[3-(4-methyl-1-piperazinyl)-1-oxopropyl]amino]-4-oxo-3(4H)-quinazolinyl]methyl]-1-piperidinyl]-5-oxo-4-(phenylmethyl) pentyl]-3-acridinecarboxamide
MF:	$C_{48}H_{57}ClN_8O_5$
FW:	861.5
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

XL177A is supplied as a solid. A stock solution may be made by dissolving the XL177A in the solvent of choice, which should be purged with an inert gas. XL177A is slightly soluble (0.1-1 mg/ml) in ethanol and sparingly soluble (1-10 mg/ml) in DMSO.

Description

XL177A is an irreversible inhibitor of ubiquitin-specific protease 7 (USP7; IC_{50} = 0.34 nM).[1] It is selective for USP7 over a panel of 41 deubiquitinating enzymes at 1 µM. XL177A decreases murine double minute 2 (MDM2) levels, increases p53 and p21 levels, and induces cell cycle arrest at the G_1 phase in MCF-7 breast cancer cells. It decreases tumor volume in an NB-SD neuroblastoma mouse xenograft model at 75 mg/kg.[2] XL177A also decreases mRNA expression of the genes encoding angiotensin-converting enzyme 2 (ACE2) and dipeptidyl peptidase 4 (DPP-4) in Huh7.5 cells and viral titers in BV-2 cells infected with the coronavirus mouse hepatitis virus strain 3 (MHV-3).[3]

References

1. Schauer, N.J., Liu, X., Magin, R.S., *et al.* Selective USP7 inhibition elicits cancer cell killing through a p53-dependent mechanism. *Sci. Rep.* **10(1)**, 5324 (2020).
2. Cmarik, E.A., Wahi, A., Chandekar, S.S., *et al.* Inhibition of USP7 destabilizes the noncanonical PRC1.1 complex and induces neuroblastoma differentiation. *Mol. Cancer Res.* **24(7)**, 555-575 (2026).
3. Huang, M.Z., Yang, Z.Y., Wang, S., *et al.* Antagonistic ubiquitin switching by USP7 and RNF40 orchestrates KDM6A homeostasis to license coronavirus susceptibility. *Adv. Sci. (Weinh)* **13(23)**, e18058 (2026).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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