

Product Name	: TDRL-551
Synonyms	: —
Cat No.	: M34443
CAS Number	: 1644626-43-6
Molecular Formula	: C ₂₅ H ₂₃ ClIN ₃ O ₄
Formula Weight	: 591.83
Chemical Name	: —
Description	: TDRL-551 is a potent replication protein A (RPA) inhibitor (IC ₅₀ =18 μM). TDRL-551 inhibits RPA-DNA interaction and increases the efficacy of Platinum (Pt)-based chemotherapy in lung and ovarian cancer. RPA plays essential roles in both nucleotide excision repair (NER) and homologous recombination (HR), along with its role in DNA replication and DNA damage checkpoint activation.
Pathway	: Others
Target	: Other Targets
Receptor	: Others
Solubility	: In Vitro: ?DMSO : 62.5 mg/mL (105.60 mM; Ultrasonic)
SMILES	: <chem>CCOc1ccc2cc(C3CC(=NN3C(=O)CCCC(O)=O)c3ccc(I)cc3)c(Cl)nc2c1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Mishra AK, et al. Chemical inhibitor targeting the replication protein A-DNA interaction increases the efficacy of Pt-based chemotherapy in lung and ovarian cancer. *Biochem Pharmacol.* 2015;93(1):25-33. ?