

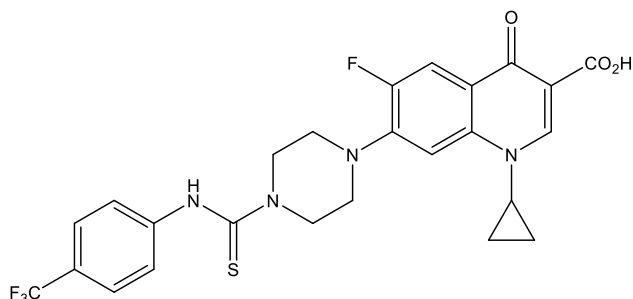
**Catalog # 10-3950**

**IMP-1700**

CAS# 1458674-25-3

1-Cyclopropyl-6-fluoro-4-oxo-7-(4-(4-(trifluoromethyl)phenyl)carbamoithioyl)piperazin-1-yl-1,4-dihydroquinoline-3-carboxylic acid

Lot # FBA6115



IMP-1700 is a potent inhibitor of the bacterial DNA double-strand break repair complex AddAB. It is capable of synergistic sensitization of methicillin-resistant staphylococcus aureus (MRSA) to ciprofloxacin ( $EC_{50} = 0.6nM$ ). IMP-1700 is an important new tool for exploring new treatment options for drug resistant bacteria.

- 1) Lim *et al.* (2019), *Identification of a potent small-molecule inhibitor of bacterial DNA repair that potentiates quinolone antibiotic activity in methicillin-resistant Staphylococcus aureus*; *Bioorg.Med.Chem.*, **27** 114962

**PHYSICAL DATA**

Molecular Weight:	534.53
Molecular Formula:	$C_{25}H_{22}F_4N_4O_5S$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at $-20^{\circ}C$ for up to 1 year from the date of purchase. Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**