

Product Name : VR-23

Synonyms : VR23

Cat No. : M12402

CAS Number : 1624602-30-7

Molecular Formula : C₁₉H₁₆ClN₅O₆S

Formula Weight : 477.88

Chemical Name : Quinoline, 7-chloro-4-[4-[(2,4-dinitrophenyl)sulfonyl]-1-piperazinyl]-

Description : A potent inhibitor of trypsin-like proteasome (IC₅₀=1 nM), chymotrypsin-like proteasome (IC₅₀=50-100 nM) and caspase-like proteasome (IC₅₀=3 uM); targets the β₂ of the 20S proteasome catalytic subunit and structurally distinct from other known proteasome inhibitors and selectively kills cancer cells by apoptosis, with little effect on noncancerous cells.

Pathway : Proteasome/Ubiquitin

Target : Proteasome

Receptor : Caspase-like proteasomes; Chymotrypsin-like proteasomes; Trypsin-like proteasomes

Solubility : 10 mM in DMSO

SMILES : O=S(N1CCN(C2=CC=NC3=CC(Cl)=CC=C32)CC1)(C4=C(C=C(C=C4)[N+])([O-])=O)[N+](O-)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Pundir S, et al. Cancer Res. 2015 Oct 1;75(19):4164-75.

