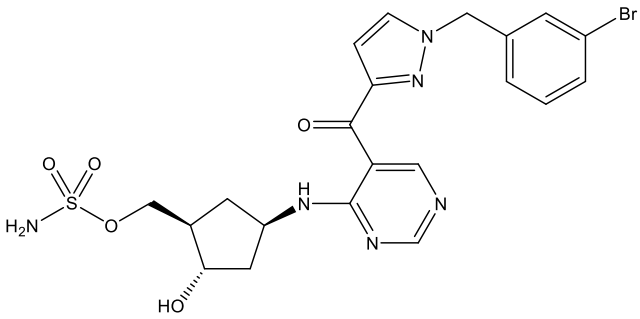
Catalog # 10-4985

ML-792

CAS# 1644342-14-2

[(1R,2S,4R)-4-[[5-[1-[(3-Bromophenyl)methyl]pyrazole-3-carbonyl]pyrimidin-4-yl]amino]-2-hydroxycyclopentyl]methyl sulfamate

Lot # FBS3070



ML-792 is a potent (IC_{50}'s = 3 nM SUMO1; 11 nM SUMO2) and selective (IC_{50} = 32 µM for NEDD8-activating enzyme (NAE)) mechanism-based inhibitor of SUMO-activating enzyme (SAE).[1] Treatment of multiple cancer cell lines led to failure of mitotic progression and induction of endoreduplication with MYC-amplified cell lines showing higher sensitivity. ML-792 inhibited B-cell growth and promoted cell death in Epstein-Barr virus (EBV)-positive B cells and nasopharyngeal carcinoma cells. It also modulated Latent Membrane Protein-1-induced cell migration and cell adhesion suggesting therapeutic potential in treating EBV-associated malignancies.[2]

1) He *et al*. (2017), *Probing the roles of SUMOylation in cancer cell biology by using a selective SAE inhibitor*; Nat. Chem. Biol. **13** 1164
2) Garcia *et al*. (2021); *Effects of targeting sumoylation processes during latent and induced Epstein-Barr virus infections using the small molecules inhibitor ML-792*, Antiviral Res., **188** 105038

PHYSICAL DATA

Molecular Weight:	551.42
Molecular Formula:	$C_{21}H_{23}BrN_6O_5S$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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