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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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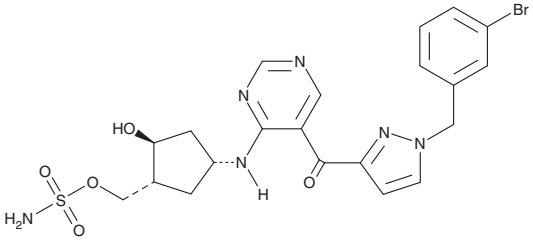
PRODUCT INFORMATION

ML-792

Item No. 36820

CAS Registry No.:	1644342-14-2
Formal Name:	sulfamic acid, [(1R,2S,4R)-4-[[5-[[1-[(3-bromophenyl)methyl]-1H-pyrazol-3-yl]carbonyl]-4-pyrimidinyl]amino]-2-hydroxycyclopentyl]methyl ester
MF:	$C_{21}H_{23}BrN_6O_5S$
FW:	551.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 213, 265 nm
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

ML-792 is supplied as a solid. A stock solution may be made by dissolving the ML-792 in the solvent of choice, which should be purged with an inert gas. ML-792 is soluble in DMSO.

Description

ML-792 is an inhibitor of SUMO-activating enzyme (SAE; IC_{50}s = 0.003 and 0.011 µM with small ubiquitin-related modifier 1 (SUMO-1) or SUMO-2, respectively, as the ubiquitin-like proteins).[1] It is selective for SAE over NEDD8-activating enzyme (NAE) and ubiquitin-activating enzyme (UAE; IC_{50}s = 32 and >100 µM, respectively). ML-792 inhibits SAE activity and decreases global SUMOylation in HCT116 human colon cancer cells (EC_{50} = 0.019 µM), as well as decreases the viability of MDA-MB-468 human breast and A375 human melanoma cells (EC_{50}s = 0.06 and 0.45 µM, respectively). It also induces mitotic defects in HCT116 cells and impairs chromosomal segregation in HCT116, A375, and COLO 205 cells. ML-792 reduces tumor growth in an HCT116 mouse xenograft model when administered at doses of 150 and 200 mg/kg twice per day.[2]

References

1. He, X., Riceberg, J., Soucy, T., *et al.* Probing the roles of SUMOylation in cancer cell biology by using a selective SAE inhibitor. *Nat. Chem. Biol.* **13(11)**, 1164-1171 (2017).
2. Langston, S.P., Grossman, S., England, D., *et al.* Discovery of TAK-981, a first-in-class inhibitor of SUMO-activating enzyme for the treatment of cancer. *J. Med. Chem.* **64(5)**, 2501-2520 (2021).

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