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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

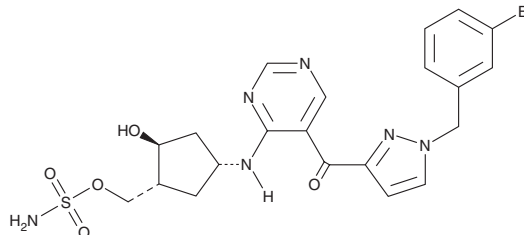


ML-792

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: C₂₁H₂₃BrN₆O₅S
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; IC₅₀s = 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; IC₅₀s = 32 and >100 μM, respectively). ML-792 inhibits SAE activity and decreases global SUMOylation in HCT116 human colon cancer cells (EC₅₀ = 0.019 μM), as well as decreases the viability of MDA-MB-468 human breast and A375 human melanoma cells (EC₅₀s = 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).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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