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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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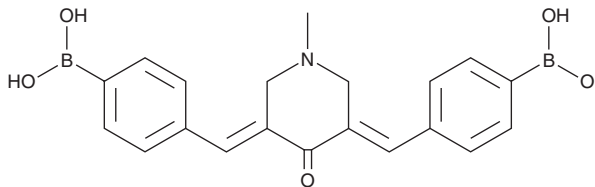
PRODUCT INFORMATION



AM114

Item No. 42040

CAS Registry No.: 856849-35-9
Formal Name: B,B'-[(1-methyl-4-oxo-3,5-piperidinediylidene)bis(methylidene)-4,1-phenylene]bis-boronic acid
Synonym: Proteasome Inhibitor IX
MF: C₂₀H₂₁B₂NO₅
FW: 377.0
Purity: ≥95%
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

AM114 is supplied as a solid. A stock solution may be made by dissolving the AM114 in the solvent of choice, which should be purged with an inert gas. AM114 is slightly soluble (0.1-1 mg/ml) in methanol.

Description

AM114 is an inhibitor of the 20S proteasome (IC₅₀ = ~1 μM).¹ It induces the accumulation of ubiquitinated proteins in HCT116 colon cancer cells when used at a concentration of 1 μM. AM114 sensitizes HCT116 p53^{+/+} and HCT116 p53^{-/-} cells to ionizing radiation-induced cytotoxicity in an additive and synergistic manner, respectively. It decreases the viability of macrophages isolated from patients with rheumatoid arthritis (IC₅₀ = 0.88 μM).²

References

1. Achanta, G., Modzelewska, A., Feng, L., *et al.* A boronic-chalcone derivative exhibits potent anticancer activity through inhibition of the proteasome. *Mol. Pharmacol.* **70(1)**, 426-433 (2006).
2. Chitra, S., Nalini, G., Lokeswari, T.S., *et al.* The effect of proteasome inhibitor (AM114) on apoptosis in IL-1β-treated peripheral blood macrophage cultured cells from rheumatoid arthritis patients. *Indian J. Rheumatol.* **11(1)**, 7-13 (2016).

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.

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