

AKR1B10-IN-1 biochemical

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CATALOG #
AAA228148

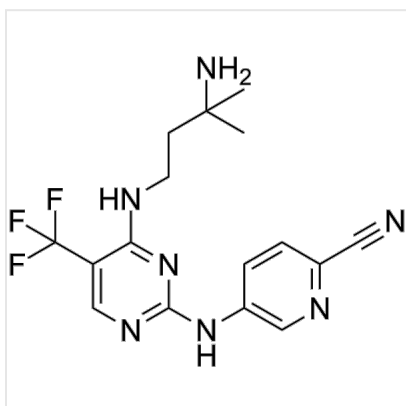
PRODUCT SYNONYMS

AKR1B10-IN-1; AKR1B10-IN-1 biochemical

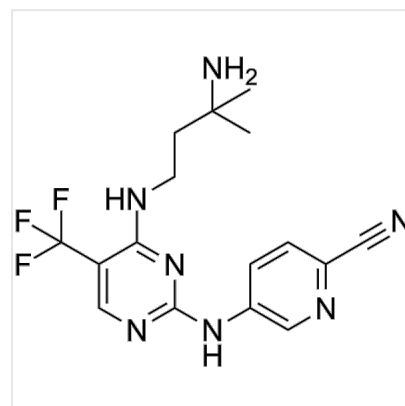
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	2136579-33-2
Targets&IC50	AKR1B10:3.5 nM, AKR1B1:277 nM
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	AKR1B10-IN-1 (compound 4e)(0-20 uM; 96 hours) dose-dependently suppresses the growth of both A549 and A549/1B10 cells[1]. AKR1B10-IN-1 (compound 4e)(0-20 uM; 96 hours) completely suppresses increased cell proliferation by the overexpressing AKR1B10 as well as the endogenous protein[1]. AKR1B10-IN-1 (compound 4e)(0-40 uM; 26 hours; pretreatment with AKR1B10-IN-1 for 2 hours, then incubated with CDDP for 24 hours) decreases the cell viability of CDDP-R-A549 cells in a dose-dependent manner[1]. Cell Viability Assay[1]. Cell Line: A549 cells, A549/1B10 cells (AKR1B10-stably overexpressing A549 cells). Concentration: 0, 10, 20uM. Incubation Time: 96 hours. Result: Dose-dependently suppressed the growth of both A549 and A549/1B10 cells, and statistically significant at 20 uM. Cell Viability Assay[1]. Cell Line: CDDP-resistance (cisplatin-resistance) of A549 cells. Concentration: 0, 10, 20, 40uM. Incubation Time: Pretreatment with AKR1B10-IN-1 for 2 hours, then incubated with CDDP for 24 hours. Result: Decreased the cell viability of CDDP-R-A549 cells in a dose-dependent manner, and most obvious in the treatment of 40 uM.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Chk1-IN-6, CAS 2428423-77-0



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ADDITIONAL INFORMATION

Related Product Information for AKR1B10-IN-1 biochemical	AKR1B10-IN-1 is a potent inhibitor of AKR1B10 (Aldo-Keto Reductase 1B10) with an IC 50 of 3.5 nM. AKR1B10-IN-1 suppresses proliferation, metastasis, and Cisplatin (CDDP) resistance of lung cancer cells.
References	1. Jin T, et al. Discovery and Development of a Potent, Selective, and Orally Bioavailable CHK1 Inhibitor Candidate: 5-((4-((3-Amino-3-methylbutyl)amino)-5-(trifluoromethyl)pyrimidin-2-yl)amino)picolinonitrile. J Med Chem. 2021 Oct 28;64(20):15069-15090.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/akr1b10-in-1/228148>