UCD38B hydrochloride

Cat. No.: HY-117359

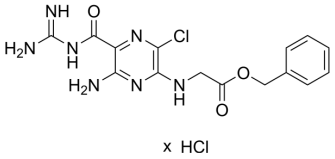
CAS No.: 1115177-19-9

Molecular Formula: $C_{15}H_{16}ClN_7O_3.xHCl$

Target: PAI-1; Apoptosis

Pathway: Metabolic Enzyme/Protease; Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

UCD38B hydrochloride is a cell permeant, competitive enzymatic uPA inhibitor with an IC_{50} value of 7 μM. UCD38B hydrochloride targets intracellular uPA causing mistrafficking of uPA into perinuclear mitochondria, reducing the mitochondrial membrane potential, and followed by the release of apoptotic inducible factor (AIF). UCD38B hydrochloride induces apoptosis[1][2].

In Vitro

UCD38B hydrochloride (10-250 μM; 1h) has cell permeant in U87MG cells[1].

UCD38B hydrochloride (10-250 μM; 1h) inhibits cell growth with an IC_{50} value of 100 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	U87MG cells
Concentration:	10, 100, and 250 μM
Incubation Time:	24 hours
Result:	Inhibited cell growth in a dose-dependent manner.

REFERENCES

[1]. Pasupuleti N, et, al. 5-Benzylglycinyl-amiloride kills proliferating and nonproliferating malignant glioma cells through caspase-independent necroptosis mediated by apoptosis-inducing factor. J Pharmacol Exp Ther. 2013 Mar;344(3):600-15.

[2]. Leon LJ, et, al. A cell-permeant amiloride derivative induces caspase-independent, AIF-mediated programmed necrotic death of breast cancer cells. PLoS One. 2013 Apr 30;8(4):e63038.

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