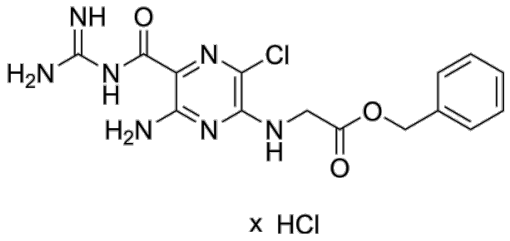
Product Data Sheet

Product Name: UCD38B hydrochloride
Cat. No.: GC72878

Chemical Properties

Cas. No.	1115177-19-9		
Formula	$C_{15}H_{16}ClN_7O_3.xHCl$	M.Wt	
Solubility	DMSO : 100 mg/mL (Need ultrasonic)	Storage	-20°C, sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

UCD38B drochloride is a cell permeant, competitive enzymatic uPA inhibitor with an IC50 value of 7 μM. UCD38B drochloride 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 drochloride induces apoptosis.

UCD38B drochloride (10-250 μM; 1h) has cell permeant in U87MG cells[1].UCD38B drochloride (10-250 μM; 1h) inhibits cell growth with an IC50 value of 100 μM[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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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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