Product Data Sheet

Product Name: Tinostamustine HCl
Cat. No.: GC19472

Chemical Properties

Cas. No.	1793059-58-1		
Chemical Name	7-(5-(bis(2-chloroethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)-N-hydroxyheptanamide hydrochloride		
SMILES	O=C(NO)CCCCCCC1=NC2=CC(N(CCCl)CCCl)=CC=C2N1C.[H]Cl		
Formula	$C_{19}H_{29}Cl_3N_4O_2$	M.Wt	451.82
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Tinostamustine HCl		

Background

Tinostamustine, also known as EDO-S101, is an alkylatlng histone-deacetylase inhibitor (HDACi) fusion molecule. EDO-S101 is a functional pan-histone-deacetylase inhibitor and is assumed to potentiate the alkylating activity of the compound and/or may help to overcome resistance to other therapeutic agents.

Reference:

[1]. Mehrling T, Chen Y. The Alkylating-HDAC Inhibition Fusion Principle: Taking
[2]. Chemotherapy to the Next Level with the First in Class Molecule EDO-S101.
[3]. Anticancer Agents Med Chem. 2015;16(1):20-8. PubMed PMID: 25980817.

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