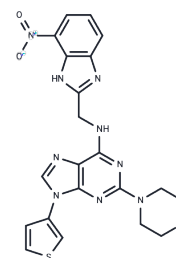


SR-1277

Chemical Properties

CAS No. :	1446715-47-4
Formula:	C ₂₁ H ₁₉ N ₉ O ₃ S
Molecular Weight:	477.5
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	SR-1277 is a potent, highly selective and ATP-competitive CK1δ/ε inhibitor with IC ₅₀ values of 49 nM and 260 nM, respectively. CK1δ plays a crucial role in regulating Wee1 activity at the G2/M cell-cycle interface, and exhibits significant antiproliferative activity against a variety of cancer cells.
Targets(IC ₅₀)	Casein Kinase
In vitro	Methods: A375 cells were treated with SR-1277 and cell viability was determined by MTT assay. Results: SR-1277 showed antiproliferative effects in A375 cells with an EC ₅₀ value of 22 nM. [1]
In vivo	Methods: SR-1277 (1 mg/kg, intravenous injection) was administered to mice, and an in vivo PK study was performed. Results: The C _{max} value of SR-1277 in mice was 1.2 μM, the Cl value was 2.8 ml/min/kg, the AUC value was 1.26 μM•h, and the half-life was 1.42 h. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0942 mL	10.4712 mL	20.9424 mL
5 mM	0.4188 mL	2.0942 mL	4.1885 mL
10 mM	0.2094 mL	1.0471 mL	2.0942 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bibian M, et, al. Development of highly selective casein kinase 1 δ /1 ϵ (CK1 δ / ϵ) inhibitors with potent antiproliferative properties. Bioorg Med Chem Lett. 2013 Aug 1;23(15):4374-80.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481