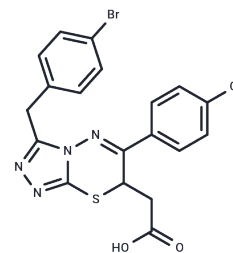


TCL1

Chemical Properties

CAS No. : 875165-39-2
 Formula: C₁₉H₁₄BrClN₄O₂S
 Molecular Weight: 477.762
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	TCL1 acts as a selective non-covalent inhibitor targeting the Pru domain of the Rpn-13 subunit within the 19S regulatory particle (19S RP) of the proteasome, with an IC ₅₀ value around 26 μM. It disrupts the recognition and transport of ubiquitinated proteins by Rpn-13, thus inhibiting proteasomal degradation and affecting intracellular protein metabolism balance. TCL1 holds potential for research in hematologic malignancies.
Targets(IC ₅₀)	Proteasome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0931 mL	10.4655 mL	20.931 mL
5 mM	0.4186 mL	2.0931 mL	4.1862 mL
10 mM	0.2093 mL	1.0466 mL	2.0931 mL
50 mM	0.0419 mL	0.2093 mL	0.4186 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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