MKT-077

Catalog No.C12149 Batch:C1214903

Product Datasheet

Technical Data

Formula	$C_{21}H_{22}ClN_3OS_2$		
Molecular Weight	432	**CAS No.**	147366-41-4
Solubility (25°C)*	In vitro	Water	86 mg/mL (199.07 mM)
		DMSO	Insoluble

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume \ Mass	1 mg	5 mg	10 mg
1 mM	2.3148 mL	11.5741 mL	23.1481 mL
5 mM	0.4630 mL	2.3148 mL	4.6296 mL
10 mM	0.2315 mL	1.1574 mL	2.3148 mL
50 mM	0.0463 mL	0.2315 mL	0.4630 mL

Biological Activity

Description	MKT-077 (FJ-776) is a newly synthesized, highly water-soluble rhodacyanine dye that exhibits significant antitumor activity in a variety of model systems.
In vitro	1.1 Preparation of the stock solution Dissolve 1 mg MKT-077 in 0.2315 mL DMSO to obtain 10 mM of this compound. Note: It is recommended to store the stock solution at -20 °C -80 °C away from light and avoid repetitive freeze-thaw cycles. 1.2 Preparation of this compound working solution Dilute the stock solution in serum-free cell culture medium or PBS to obtain 5-10 μM of this chemical working solution. Note: Please adjust the concentration of this compound working solution according to the actual situation. Cell staining 2.1 Cell preparation. For suspension cells: Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time. For adherent cells: Discard the cell culture medium, and add trypsin to dissociate cells to make a single-cell suspension. Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time. 2.2 Add 1 mL of this compound working solution, and then incubate at room temperature for 30 minutes. 2.3 Centrifuge at 400 g at 4°C for 3-4 minutes and then discard the supernatant. 2.4 Wash twice with PBS, 5 minutes each time. 2.5 Resuspend cells with serum-free cell culture medium or PBS, and then detect by fluorescence microscope or flow cytometer.

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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