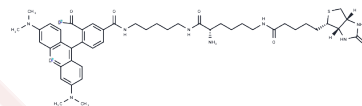


## TMR Biocytin

## Chemical Properties

CAS No. :	749247-49-2
Formula:	C46H60N8O7S
Molecular Weight:	869.08
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	TMR Biocytin, a polar tracer, is utilized in researching cell-cell and cell-liposome fusions, membrane permeability, and cellular uptake during pinocytosis. Detectable with streptavidin, it serves as an effective neuronal tracer in live tissue (Ex=544 nm, Em=571 nm) [1].
Targets(IC50)	Others
In vivo	TMR Biocytin is employed to assess the permeability changes in the blood-brain barrier (BBB) [2]. Guidelines (Following is our recommended protocol. This protocol provides a guideline and should be modified according to your specific needs) [2]: 1. Dilute 1 mg TMR Biocytin in 100 µL PBS (per mouse) and inject into the tail vein. 2. After 30 minutes, anesthetize and perfuse the animals. 3. Extract spinal cords and prepare deep-frozen, serial 10 µm longitudinal sections. 4. Stain nuclei with DAPI. 5. Capture images of entire sections at ×10 objective and ×10 eyepiece magnification, maintaining identical laser intensity, exposure times, and magnification across all cohorts. 6. These parameters were established using livers from both tracer-injected and non-injected mice.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1506 mL	5.7532 mL	11.5064 mL
5 mM	0.2301 mL	1.1506 mL	2.3013 mL
10 mM	0.1151 mL	0.5753 mL	1.1506 mL
50 mM	0.023 mL	0.1151 mL	0.2301 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**

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