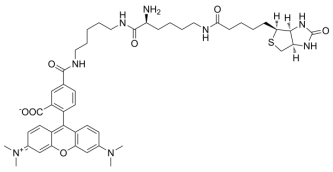
TMR Biocytin

Cat. No.:	HY-D1672
CAS No.:	749247-49-2
Molecular Formula:	$C_{46}H_{60}N_8O_7S$
Molecular Weight:	869.08
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TMR Biocytin is a polar tracer used in the research of cell-cell and cell-liposome fusions, as well as membrane permeability and cellular uptake during pinocytosis. TMR Biocytin can be detected using streptavidin, and is an effective neuronal tracer in live tissue (Ex=544 nm, Em=571 nm)[1].
In Vivo	TMR Biocytin can be used to examine the permeability changes of blood brain barrier (BBB)[2]. Guidelines (Following is our recommended protocol. This protocol only 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 the solution into the tail vein. 2. 30 min after injection, anesthetize and perfuse the animals. 3. Remove spinal cords, prepare deep frozen and serial 10 μm longitudinal sections. 4. Stain nuclear counterstain using DAPI. 5. Obtaine the images of whole sections with ×10 power of objective, ×10 power of eyepiece, by using identical laser intensity, exposure times and magnification in all cohorts. 6. To set the above parameters, livers from tracer injected mice and non-injected mice were used. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mads Harsløf, et al. Fast neuronal labeling in live tissue using a biocytin conjugated fluorescent probe. J Neurosci Methods. 2015 Sep 30;253:101-9.

[2]. Smadar Goldfarb, et al. Electric neurostimulation regulates microglial activation via retinoic acid receptor α signaling. Brain Behav Immun. 2021 Aug;96:40-53.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA