Tetrabromorhodamine 123 bromide

Cat. No.:	HY-D1673	
CAS No.:	623903-26-4	Br Br
Molecular Formula:	C ₂₁ H ₁₃ Br ₅ N ₂ O ₃	H_2N O NH_2^+ Br Br Br O Br H_2
Molecular Weight:	740.86	
Target:	Fluorescent Dye	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

DIOLOGICAL ACTIV		
Description	Tetrabromorhodamine 123 (TBR) bromide is a photosensitizer. Tetrabromorhodamine 123 bromide can be used for the research of photo dynamic therapy (PDT) and cancer ^[1] .	
In Vitro	 Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). A. Labeling of Cells: Incubate the cells according to your normal protocol. Cells are incubated with DMEM containing 5 μM TBR and maintained in the dark in a CO₂ incubator at 37Ø. After 1 h, chang the medium to normal culture medium without phenol red, and cells were exposed to visible light with a 500 W Xe arc with a filter. The intracellular localization of TBR: Cells are cultured in 35 mm diameter glassbottomed dishes for 48 h. Incubate the cells according to your normal protocol. For triple-staining, medium is changed to a solution containing BODIPY-TR ceramide (5 μM). Cells are incubated at 48Ø for 20 min and then further incubated at 37Ø for 1 h, after which the solution is changed to normal medium containing 5 μM TBR. The stock solution (1 mM) of Hoechst 33342 was added to the medium (final concentration, 100 μM), and cells were incubated for 15 min. Cells are washed with phosphate-buffered saline (plus Ca²⁺, Mg²⁺) and then observed with the aid of confocal laser scanning microscopy (LSM). MCE has not independently confirmed the accuracy of these methods. They are for reference only. 	

REFERENCES

[1]. Maiko Ogata, et al. Ca(2+)-dependent and caspase-3-independent apoptosis caused by damage in Golgi apparatus due to 2,4,5,7-tetrabromorhodamine 123 bromideinduced photodynamic effects. Photochem Photobiol. 2003 Sep;78(3):241-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

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