



Product Name:

CDg18

Catalog Number:

T01223

Description:

CDg18 is the first M2 macrophage selective fluorescent probe. The selectivity of CDg18 over M2 macrophage has a novel mechanism of gating-oriented live-cell distinction through M2-favored fatty acid transporters. It has been demonstrated that CDg18 can be used to visualize the progressive phenotypic change of M2 toward M1 using a resveratrol analogue HS-1793 as a reprogramming effector. Combined together with M1 probe CDr17, the diminishing M2 character and emerging M1 markers could be simultaneously monitored in real time through the multicolor changes during macrophage reprogramming. Excitation maximum = 444 nm; emission maximum = 525 nm.

Physical and Chemical Properties:

Molecular Formula: C₃₃H₄₈N₂O₄

Molecular Weight: 536.757

Physical Appearance: Yellow solid

Purity: ≥95%

Optical Properties:

Abs/Em Maxima: 444/525 nm.

Solubility:

DMSO

Storage:

Store at -20°C and protected from light.

Shelf Life:

12 months after date of delivery.

References:

Cho, H., Kwon, H. Y., Lee, S. H., Lee, H. G., Kang, N. Y., & Chang, Y. T. (2023). Development of a Fluorescent Probe for M2 Macrophages via Gating-Oriented Live-Cell Distinction. *Journal of the American Chemical Society*, 145(5), 2951–2957. <https://doi.org/10.1021/jacs.2c11393>

Caution:

For Research Use Only.
