

LumiCell CDr17 M1 Macrophage Stain

<http://hk.lumiprobe.com/p/cdr17-m1-macrophage-stain>

CDr17 is a selective small-molecule fluorescent probe designed for the identification and tracking of M1 macrophages. The labeling method is based on the higher expression of the GLUT1 transporter in M1 (pro-inflammatory) macrophages compared to M0 (resting) and M2 (anti-inflammatory) macrophages. CDr17 probe is composed of a glucose scaffold and a 2-position Cyanine5 fluorophore, and due to this, it is taken up into cells specifically through the GLUT1 transporter. The CDr17 accumulation is directly proportional to GLUT1 expression levels.

CDr17 has been demonstrated to track M1 macrophages *in vivo* in a rheumatoid arthritis animal model ^[1].

Excitation maximum is at 649 nm; emission maximum is at 672 nm.

[1] Cho H. et al. Visualizing inflammation with an M1 macrophage selective probe via GLUT1 as the gating target. Nat. Commun. 2022. 13. 5974.

外观:

分子量: 745.66

分子式: $C_{39}H_{52}BF_4N_3O_6$

溶解度:

质量控制: NMR 1H 和HPLC-MS (95+ %)

储存条件: 接收後24個月在黑暗中-20°C。運輸: 在室溫下最多3週。乾燥。

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