



Product Name:

CDr17

Catalog Number:

T01216

Description:

CDr17 is a selective small-molecule fluorescent probe for M1 macrophages. The molecular target of CDr17 is GLUT1. GLUT1 was validated to be highly expressed in M1 than M0 and M2 macrophages, and CDr17 utilizes GLUT1 to enter M1 macrophages. CDr17 has been demonstrated to track M1 macrophages in vivo in a rheumatoid arthritis animal model. Excitation maximum = 649 nm; emission maximum = 672 nm.

Physical and Chemical Properties:

Molecular Formula: C₃₉H₅₂N₃O₆

Molecular Weight: 785.764

Physical Appearance: Dark blue solid

Purity: ≥95%

Optical Properties:

Abs/Em Maxima: 649/672 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., Sharma, A., Lee, S. H., Liu, X., Miyamoto, N., Kim, J. J., Im, S. H., Kang, N. Y., & Chang, Y. T. (2022). Visualizing inflammation with an M1 macrophage selective probe via GLUT1 as the gating target. *Nature Communications*, 13(1). <https://doi.org/10.1038/s41467-022-33526-z>

Caution:

For Research Use Only.