CDr10a

P010a
1 μmol

■ **Known Property** Primary microglia and mouse cell line, BV2 cell selective probe

■ **Application** Immunofluorescence

■ **Cell selectivity mechanism**: unknown

■ **Storage**
① Delivery: Room Temperature
② Dried compound: 4 °C or -20 °C
③ Compound solution: 4 °C or -20 °C

■ ORDER

SenPro
order@senprobe.com
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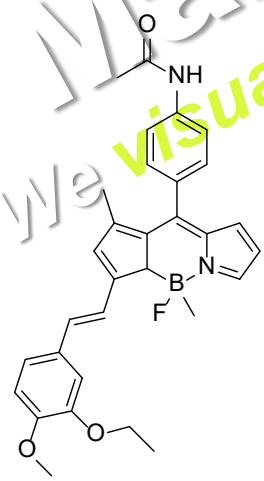
■ General Use Guide

More than 1/100 dilution of 10mM of DMSO stock solution is essential

For biomedical use to avoid DMSO concentration higher than 1%.

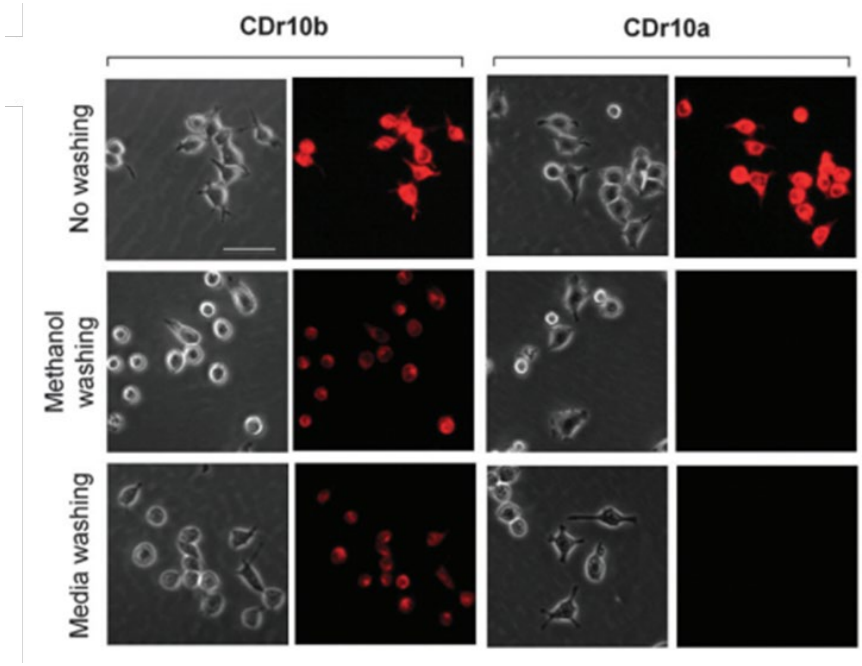
Working concentrations for specific applications should be determined by the investigator.

It is recommended to use up the buffer diluted solution within one day. The compound may be decomposed or precipitated out from buffer solution.



Molecular Weight	515.37 ($C_{29}H_{28}BF_2N_3O_3$)
λ_{ex} / λ_{em}	570 / 620 nm

CDr10 (Compound of Designation red 10) is microglia selective probe, and stains both primary microglia and mouse cell line BV2 cells. CDr10a is with acetyl group and CDr10b is with chloroacetyl group, which can make covalent bond with thiol group. Therefore, CDr10b staining survives cell methanol fixing condition, while CDr10a signal is washed out. CDr10 stains cytosol of microglia cell, and the selectivity mechanism is not known. CDr10b stains activated microglia stronger than resting state microglia. The low toxicity of CDr10b allowed a movie of microglia attacking glioma cells



CDr10b cell staining was relatively resistant to washing with methanol and media whereas **CDr10a** staining was completely washed out.

- Related probes: CDr20

Reference

1. **Microglia specific fluorescent probe for live cell imaging,** Leong, C.; Lee, S. C.; Ock, J.; See, P.; Park, S. J.; Ginhoux, F.; Yun, S. W.*; Chang, Y. T.* Chem. Commun. 2014, 50, 1089-1091.