

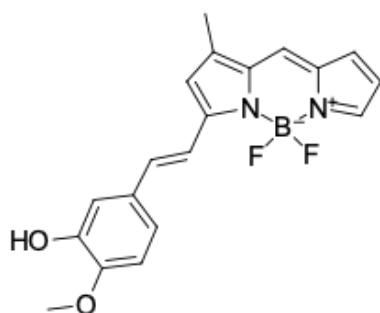
LumiCell CDr20 Microglia Stain

<http://www.lumiprobe.com/p/cdr20-microglia-stain>

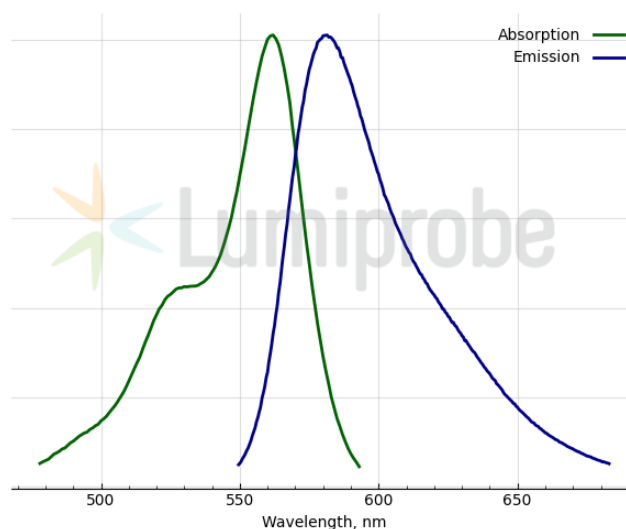
CDr20 (Cell Designation red 20) is a high-performance fluorogenic chemical probe for labeling microglia in both cell cultures and live brains. CDr20 is a substrate of microglia-specific UDP-glucuronosyltransferase Ugt1a7c. The glucuronidation of CDr20 by Ugt1a7c produces bright red fluorescence in microglial cells coinciding with the expression of markers P2ry12, Csf1r, Cx3cr1, and Iba-1 [1].

CDr20 could be a valuable tool for identifying and visualizing microglia in neural disorder studies both *in vitro* and *in vivo* and for CDr20-based fluorescent-activated microglial cell sorting (FACS).

[1] Kim B. et al. Visualizing Microglia with a Fluorescence Turn-On Ugt1a7c Substrate. Angew. Chem. Int. Ed. Engl. 2019. 58(24). 7972-7976.



Structure of CDr20



Absorption and emission spectra of CDr20 Microglia Stain

General properties

| | |
|---------------------|---|
| Appearance: | greenish black crystals |
| Molecular weight: | 354.17 |
| CAS number: | 1201643-01-7 |
| Molecular formula: | C ₁₉ H ₁₇ BF ₂ N ₂ O ₂ |
| Quality control: | NMR ¹ H and HPLC-MS (95+%) |
| Storage conditions: | 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. |

Spectral properties

| | |
|--|-------|
| Excitation/absorption maximum, nm: | 562 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 97500 |
| Emission maximum, nm: | 581 |