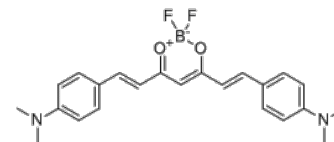


**Product Name** : CRANAD-2  
**Cat. No.** : PC-38441  
**CAS No.** : 1193447-34-5  
**Molecular Formula** : C<sub>23</sub>H<sub>25</sub>BF<sub>2</sub>N<sub>2</sub>O  
**Molecular Weight** : 410.3  
**Target** : Fluorescent Dye  
**Solubility** : 10 mM in DMSO



## Biological Activity

CRANAD-2 is a blood-brain barrier penetrant, near-infrared probe that binds to **Aβ40 aggregates** (K<sub>d</sub> = 38 nM) and elicits an emission blue shift, for the detection of amyloid-β (Aβ) deposits in vitro and in vivo.

CRANAD 2 directly binds to amyloid-β (Aβ) plaques in vitro and APP-PS1 transgenic mice.

CRANAD 2 exhibits a 70-fold increase in fluorescence intensity, a blue shift from 805 to 715 nm, and a large increase in quantum yield.

## References

Chongzhao Ran, et al. *J Am Chem Soc.* 2009 Oct 28;131(42):15257-61.

Chongzhao Ran, et al. *PLoS One.* 2011 Apr 29;6(4):e19362.

Torra J, et al. *Chemistry.* 2022 Apr 1;28(19):e202200026.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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