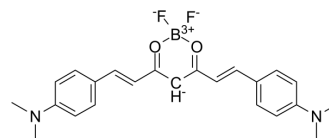


## CRANAD-2

Cat. No.:	HY-103242
CAS No.:	1193447-34-5
Molecular Formula:	C <sub>23</sub> H <sub>25</sub> BF <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	410.26
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 2.08 mg/mL (5.07 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.4375 mL	12.1874 mL	24.3748 mL	
5 mM	0.4875 mL	2.4375 mL	4.8750 mL	
10 mM	---	---	---	

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

CRANAD-2 is a near-infrared (NIR) Aβ plaque-specific fluorescent probe. CRANAD 2 penetrates the blood brain barrier and has a high affinity for Aβ aggregates with a K<sub>d</sub> of 38 nM<sup>[1][2]</sup>.

## REFERENCES

[1]. Ran C, et al. Design, synthesis, and testing of difluoroboron-derivatized curcumins as near-infrared probes for in vivo detection of amyloid-beta deposits. J Am Chem Soc. 2009 Oct 28;131(42):15257-61.

[2]. Ran C, et al. Non-conjugated small molecule FRET for differentiating monomers from higher molecular weight amyloid beta species. PLoS One. 2011 Apr 29;6(4):e19362.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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