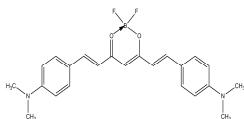


Product:**CRANAD-2****ALTERNATE NAME:**(T-4)-[(1E,6E)-1,7-Bis[4-(dimethylamino)phenyl]-1,6-heptadiene-3,5-dionato- K^{O^3} , K^{O^5}]difluoroboron**CATALOG #:**

2699-5, 25

AMOUNT:

5 mg, 25 mg

STRUCTURE:**MOLECULAR FORMULA:** $\text{C}_{23}\text{H}_{25}\text{BF}_2\text{N}_2\text{O}_2$ **MOLECULAR WEIGHT:**

410.26

CAS NUMBER:

1193447-34-5

APPEARANCE:

Dark blue to black solid

SOLUBILITY:

DMSO (~ 2 mg/ml with slight warming)

PURITY:

≥98% by HPLC

STORAGE:

Store at -20 °C. Protect from air and light

DESCRIPTION:

GRANAD-2 is a near-infrared A β plaque-specific fluorescent probe penetrating the blood brain barrier and label senile plaques specifically *in vivo*. Upon interacting with A β aggregates, CRANAD-2 displays a 70-fold increase in fluorescence intensity accompanied by a 90 nm blue shift from 805 to 715 nm and a large increase in quantum yield. CRANAD -2 has been used to detect A β deposits noninvasively *in vivo* in transgenic Tg2576 mice.

REFERENCES:Ran, C., *et al.* (2009). *J. Am. Chem. Soc.* **131**, 15257-15261.**HANDLING:**

Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Congo Red (cat. No. 2588-100, 500)

Methoxy-X04 (Cat. No. 2664-5, 25)

FOR RESEARCH USE ONLY! Not to be used on humans.