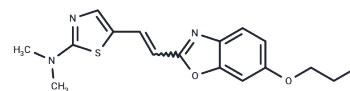


BF 227

## Chemical Properties

CAS No. : 845647-80-5  
 Formula: C<sub>16</sub>H<sub>16</sub>FN<sub>3</sub>O<sub>2</sub>S  
 Molecular Weight: 333.38  
 Appearance: no data available  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | BF 227 is a candidate for an amyloid imaging probe for PET (K <sub>i</sub> : 4.3 nM for Aβ <sub>1-42</sub> fibrils).                                                                                                                                                                                                                                                                                                                               |
| Targets(IC <sub>50</sub> ) | Others                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| In vitro                   | BF-227 has a high binding affinity for Aβ <sub>1-42</sub> fibrils. The K <sub>i</sub> value for Aβ <sub>1-42</sub> fibrils in competitive binding assay using [ <sup>125</sup> I]BF-180 is 4.3 nM in BF-227 (K <sub>d</sub> value of [ <sup>125</sup> I]BF-180: 10.8 nM)[1]. The AUC for BF-227 (0.994) is much higher than that for FDG (0.839), indicating that BF-227 is more sensitive as well as more specific than FDG in diagnosing AD [2]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.9996 mL | 14.9979 mL | 29.9958 mL |
| 5 mM  | 0.5999 mL | 2.9996 mL  | 5.9992 mL  |
| 10 mM | 0.300 mL  | 1.4998 mL  | 2.9996 mL  |
| 50 mM | 0.060 mL  | 0.300 mL   | 0.5999 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Kudo Y, et al. Development of amyloid imaging PET probes for an early diagnosis of Alzheimer's disease. Minim Invasive Ther Allied Technol. 2006;15(4):209-13.

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