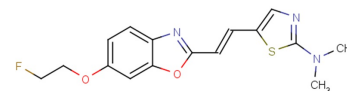


BF 227

Chemical Properties

CAS No.:	845647-80-5
Formula:	C ₁₆ H ₁₆ FN ₃ O ₂ S
Molecular Weight:	333.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	BF 227 is a candidate for an amyloid imaging probe for PET (K _i : 4.3 nM for Aβ ₁₋₄₂ fibrils).
Targets(IC ₅₀)	Aβ ₁₋₄₂ : k _i : 4.3 nM
In vitro	BF-227 has a high binding affinity for Aβ ₁₋₄₂ fibrils. The K _i value for Aβ ₁₋₄₂ fibrils in competitive binding assay using [125I]BF-180 is 4.3 nM in BF-227 (K _d value of [125I]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].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0 mL	14.998 mL	29.996 mL
5 mM	0.6 mL	3.0 mL	5.999 mL
10 mM	0.3 mL	1.5 mL	3.0 mL
50 mM	0.06 mL	0.3 mL	0.6 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. Furukawa K, et al. Amyloid PET in mild cognitive impairment and Alzheimer's disease with BF-227: comparison to FDG-PET. J Neurol. 2010 May;257(5):721-7.

Inhibitors · Natural Compounds · Compound Libraries

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