



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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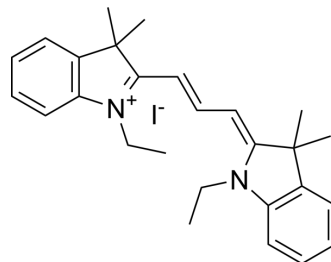
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## Astrophloxine

<b>Cat. No.:</b>	HY-112636		
<b>CAS No.:</b>	14696-39-0		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>33</sub> N <sub>2</sub>		
<b>Molecular Weight:</b>	512.47		
<b>Target:</b>	Amyloid-β		
<b>Pathway:</b>	Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (97.57 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9513 mL	9.7567 mL	19.5133 mL
	5 mM	0.3903 mL	1.9513 mL	3.9027 mL
	10 mM	0.1951 mL	0.9757 mL	1.9513 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Astrophloxine is a fluorescent imaging probe capable of targeting antiparallel dimers. Astrophloxine can be used to detect aggregated Aβ in brain tissue and cerebrospinal fluid samples of Alzheimer's disease (AD) mice<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Antiparallel dimer<sup>[1]</sup>

#### In Vitro

Astrophloxine binds Aβ dimers with stronger fluorescence intensity (A.U.) than binding Aβ monomers<sup>[1]</sup>.

Protocol for CSF analyses<sup>[1]</sup>:

1. Prepare 1 μL of CSF samples with 1 μL of 10X protease inhibitors and diluted the mixture with 8 μL of binding buffer. Binding buffer (0.1 M sodium phosphate, 0.15 M sodium chloride, 10 mM EDTA; pH 7.2).
2. Dilute Astrophloxine to 0.5 μM with binding buffer.
3. Add individual samples and dye to the wells of a 96-well half-area black microplate with a sample to dye ratio of 1:3. Detect at λ<sub>ex</sub>=540 nm/λ<sub>em</sub>=570 nm.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

Astrophloxine shows more fluorescence (A.U.) in APP/PS1 mice CSF rather in WT mice, and is able to indicate soluble Aβ

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oligomers in CSF and insoluble plaques in brain tissue<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Lee JC, et al. Discovery of Chemicals to Either Clear or Indicate Amyloid Aggregates by Targeting Memory-Impairing Anti-Parallel A $\beta$  Dimers. *Angew Chem Int Ed Engl.* 2020 Jul 6;59(28):11491-11500.

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

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