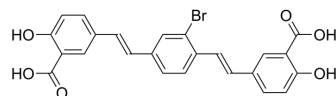


## BSB

Cat. No.:	HY-D1443
CAS No.:	291766-06-8
Molecular Formula:	C <sub>24</sub> H <sub>17</sub> BrO <sub>6</sub>
Molecular Weight:	481.29
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 : 100 mg/mL (207.77 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0777 mL	10.3887 mL	20.7775 mL
	5 mM	0.4155 mL	2.0777 mL	4.1555 mL
	10 mM	0.2078 mL	1.0389 mL	2.0777 mL

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

## BIOLOGICAL ACTIVITY

### Description

BSB is a Congo red-derived fluorescent probe. BSB binds not only to extracellular amyloid β protein, but also many intracellular lesions composed of abnormal tau and synuclein proteins. BSB acts as a prototype imaging agent for Alzheimer's disease<sup>[1]</sup>.

## REFERENCES

[1]. M L Schmidt, et al. The fluorescent Congo red derivative, (trans, trans)-1-bromo-2,5-bis-(3-hydroxycarbonyl-4-hydroxy)styrylbenzene (BSB), labels diverse beta-pleated sheet structures in postmortem human neurodegenerative disease brains. *Am J Pathol.* 2001 Sep;159(3):937-43.

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

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