



# 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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

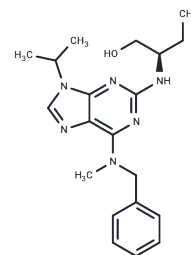
[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Aftin-4

## Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 866893-90-5                                              |
| Formula:          | C <sub>20</sub> H <sub>28</sub> N <sub>6</sub> O         |
| Molecular Weight: | 368.48                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description     | Aftin-4, an amyloid forty-two inducer, activates $\gamma$ -secretase, promoting the generation of amyloid- $\beta$ -1-42 (A $\beta$ 1-42) from amyloid- $\beta$ protein precursor. Aftin-4(Aftin4) increased A $\beta$ -1-42, but not A $\beta$ -1-40 in mouse hippocampus, accompanied by learning deficits and mitochondrial ultrastructural changes similar to those found in the brains of patients with AD. Aftin-4(Aftin4) can thus be used to induce a rapid, acute Alzheimer's disease-like toxicity in the rodent brain. |
| Targets(IC50)   | Beta Amyloid,Gamma-secretase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Animal Research | Brains of 4-mo-old C57BL/6 wild-type mice were dissected and mechanically disassociated in HBSS with a tissue homogenizer. Aliquots from each mouse were incubated with DMSO and two concentrations of Aftin-4 at 37°C for 3 h. Liquefied brains were sonicated and centrifuged at 13,000 rpm for 15 min. WB analysis was performed using CT695 antibody for soluble A $\beta$ -CTF. They are for reference only.                                                                                                                 |

## Solubility Information

|            |                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 55 mg/mL (149.26 mM),<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7139 mL | 13.5693 mL | 27.1385 mL |
| 5 mM  | 0.5428 mL | 2.7139 mL  | 5.4277 mL  |
| 10 mM | 0.2714 mL | 1.3569 mL  | 2.7139 mL  |
| 50 mM | 0.0543 mL | 0.2714 mL  | 0.5428 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

Bettayeb K, etal. Small-molecule inducers of A $\beta$ -42 peptide production share a common mechanism of action.[J].  
Faseb Journal Official Publication of the Federation of American Societies for Experimental Biology, 2012, 26(12):

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481