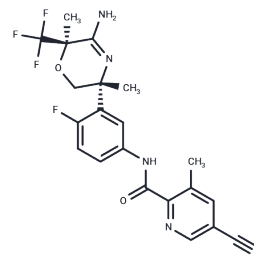


NB-360

## Chemical Properties

CAS No. : 1262857-73-7  
 Formula: C<sub>21</sub>H<sub>19</sub>F<sub>4</sub>N<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 449.4  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	NB-360 is a potent and brain-penetrable inhibitor of BACE1 and BACE2 with IC <sub>50</sub> s of 5, 5, and 6 nM for mouse and human BACE1 and BACE2. NB-360 exhibits excellent selectivity over the related aspartyl proteases pepsin, cathepsin E, and cathepsin D.
Targets(IC <sub>50</sub> )	Beta-Secretase, BACE
In vivo	NB-360 blocks the progression of A $\beta$ deposition in the brains of APP transgenic mice, a model for amyloid pathology. Almost complete reduction of A $\beta$ was achieved also in rats and in dogs. NB-360 stops accumulation of activated inflammatory cells in the brains of APP transgenic mice. Upon chronic treatment of APP transgenic mice, patches of grey hairs appeared[2].

## Solubility Information

Solubility DMSO: 45 mg/mL (100.13 mM), Sonication is recommended.  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2252 mL	11.1259 mL	22.2519 mL
5 mM	0.445 mL	2.2252 mL	4.4504 mL
10 mM	0.2225 mL	1.1126 mL	2.2252 mL
50 mM	0.0445 mL	0.2225 mL	0.445 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Neumann U, et al. Mol Neurodegener. 2015 Sep 3;10:44. doi: 10.1186/s13024-015-0033-8.

Neumann U, et al. The  $\beta$ -secretase (BACE) inhibitor NB-360 in preclinical models: From amyloid- $\beta$  reduction to downstream disease-relevant effects. Br J Pharmacol. 2019 Sep;176(18):3435-3446.

**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:34 Washington Street,Wellesley Hills,MA 02481