



PRODUCT DATA SHEET

Product: β -Secretase Inhibitor

Cat. No.: AB-053 (3 mg)

Chemical Name:

Lys-Thr-Glu-Glu-Ile-Ser-Glu-Val-Asn-(Statine)-
Val-Ala-Glu-Phe-OH

Formula:

C₇₃H₁₁₈N₁₆O₂₇

Molecular Weight:

1651

Form:

White lyophilized powder

Description:

Beta-Secretase Inhibitor.

Purity:

98 ± 1% by HPLC

Solubility:

Soluble in DMSO.

Reconstitution:

We recommend reconstitution in DMSO because DMSO may be required to maintain solubility of the inhibitor in β -secretase activity assays.

Activity:

This inhibitor has demonstrated potent β -secretase inhibition (IC₅₀ ~30 nM) under the following conditions.

- Buffer: 20 nM sodium acetate, pH 4.8, 0.06% Triton X-100.
- Substrate: MBPAPPC125 recombinant fusion protein, 10 μ g/mL. The fusion protein contains a C-terminal fragment of myelin basic protein (MBP) and the 124 amino acid C-terminal fragment of amyloid precursor protein (APPC123).
- Inhibitor: Tested at concentrations ranging from 1 μ M to <0.01 μ M. DMSO was present at a final concentration of 2%.
- Incubation: 37°C, 1 to 2 hours.

Storage and Stability:

Store the powder desiccated at RT. Store the stock solution at -20°C. Dissolve as much as needed for one day since the powder is the most stable form.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.