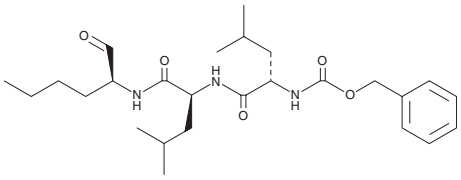
PRODUCT INFORMATION

γ–Secretase Inhibitor I

Item No. 45205

CAS Registry No.: 133407-83-7
Formal Name: N-[(phenylmethoxy)carbonyl]-L-leucyl-N-[(1S)-1-formylpentyl]-L-leucinamide
Synonyms: GSI-I, Z-Leu-Leu-Nle-CHO, Z-LLNle-CHO
MF: $C_{26}H_{41}N_3O_5$
FW: 475.6
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

γ–Secretase inhibitor I is supplied as a solid. A stock solution may be made by dissolving the γ–Secretase inhibitor I in the solvent of choice, which should be purged with an inert gas. γ–Secretase inhibitor I is sparingly soluble (1-10 mg/ml) in ethanol and soluble (≥10 mg/ml) in DMSO.

Description

γ–Secretase inhibitor I is a γ-secretase and proteasome inhibitor.[1] It reduces growth of BT474, T47D, SK-BR-3, and MDA-MB-468 breast cancer cells (ED_{50}s = 2.5, 2.4, 1.6, and 1.4 µM, respectively) and decreases levels of the γ-secretase cleavage product Notch1 intracellular domain (N1ICD) in the same cells. γ–Secretase inhibitor I reduces proteasome activity in MCF-7 and MDA-MB-231 breast cancer cells when used at concentrations ranging from 1 to 4 µM.

Reference

1. Han, H., Ma, I., Hendzel, M.J., *et al*. The cytotoxicity of γ-secretase inhibitor I to breast cancer cells is mediated by proteasome inhibition, not by γ-secretase inhibition. *Breast Cancer Res.* **11(4)**, R57 (2005).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM