

Product Data Sheet

Product Name: Cotransin TFA

Cat. No.: GC79547

Chemical Properties

Cas. No.

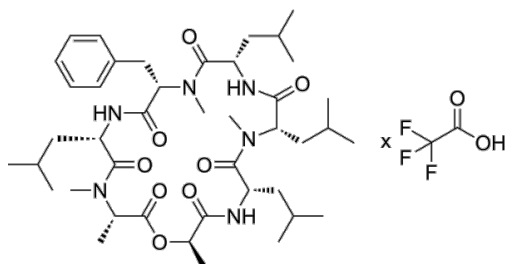
Formula $C_{42}H_{68}N_6O_8 \cdot xC_2HF_3O_2$ M.Wt 785.02

Solubility DMSO: 1.25 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



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

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Background

Cotransin TFA is a cyclic ester peptide and a Sec61 translocator binder with signal sequence-selective activity to inhibit co-translational protein translocation. Cotransin TFA inhibits the biogenesis of a subset of secretory and membrane proteins in a signal peptide-dependent manner. Cotransin TFA is applicable for cancer-related research [1] [2].

In Vitro, Cotransin TFA inhibits the biogenesis of a subset of secretory proteins and membrane proteins in a signal peptide-dependent manner^{[1][2]}.

References:

- [1]. Choi I, et al. Cotransin induces accumulation of a cytotoxic clusterin variant that cotranslationally rerouted to the cytosol. *Exp Cell Res*. 2013;319(8):1073-1082.
- [2]. Wenzell NA, et al. Global signal peptide profiling reveals principles of selective Sec61 inhibition. *Nat Chem Biol*. 2024;20(9):1154-1163.

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