

SSM3 tetraTFA hydrate

Chemical Properties

CAS No. :

Formula: C₃₀H₃₆F₁₂N₁₂O₁₀·1.5H₂O

Molecular Weight: 979.7

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	SSM3 tetraTFA hydrate, a potent synthetic inhibitor of furin, exhibits an EC ₅₀ of 54 nM and a K _i of 12 nM, effectively inhibiting the furin-dependent cell surface processing of anthrax protective antigen-83 in vitro [1] [2].
Targets(IC ₅₀)	Others
In vitro	SSM3 tetraTFA hydrate effectively inhibits furin-mediated cleavage, exhibiting an EC ₅₀ value of 54 nM for the Pyr-RTKR-AMC substrate in both in vitro assays and cell-based tests [2]. It also dose-dependently prevents the furin-dependent conversion of PA83 to PA63 in cleavage reactions, with concentrations ranging from 0.1-25 μM [2]. The compound demonstrates comparable inhibitory potency against furin (K _i = 0.012 μM) and PC6B (K _i = 0.004 μM), with a preference for furin over PACE4 by 2- to 10-fold (K _i = 0.041 μM) and over PC7 by 11- to 76-fold (K _i = 0.595 μM). While SSM3 tetraTFA hydrate is less effective against LF (K _i = 1.241 μM) by 25- to 167-fold compared to furin, it does not significantly inhibit trypsin and MT1-MMP [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0207 mL	5.1036 mL	10.2072 mL
5 mM	0.2041 mL	1.0207 mL	2.0414 mL
10 mM	0.1021 mL	0.5104 mL	1.0207 mL
50 mM	0.0204 mL	0.1021 mL	0.2041 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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