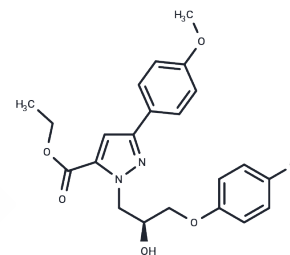


SEC

Chemical Properties

CAS No. :	1802997-81-4
Formula:	C ₂₂ H ₂₃ ClN ₂ O ₅
Molecular Weight:	430.88
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	SEC activates ANXA7 GTPase through the AMPK/mTORC1/STAT3 signaling pathway. It selectively induces apoptosis in cancer cells expressing high levels of ITGB4 by promoting ITGB4 nuclear translocation [1][2].
Targets(IC50)	Apoptosis,Others
In vitro	SEC (20 μM) inhibits the cell migration of HEK 293T RKIP-/- cells and PC3 prostate cancer cells[1].SEC (20 μM) significantly increases AMPK phosphorylation in PC3 cells, which is inverted by ANXA7 GTPase specific inhibitor ABO, indicating that activated ANXA7 with enhanced phosphorylation level promotes AMPK phosphorylation (cell selectively)[1]. Cell Viability Assay[1] Cell Line: HEK293T RKIP-/- cells.[1]
In vivo	SEC (3 mg/kg/day or 18 mg/kg/day) suppresses metastasis in the PC-3M-Luc orthotopic implantation nude mice model[1]. Animal Model: Luciferase-labeled PC-3M-Luc cells (2×10 ⁶ per 50 μL sterile HBSS-/-) are orthotopically inoculated into the prostates of 8-week-old nude mice[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3208 mL	11.6042 mL	23.2083 mL
5 mM	0.4642 mL	2.3208 mL	4.6417 mL
10 mM	0.2321 mL	1.1604 mL	2.3208 mL
50 mM	0.0464 mL	0.2321 mL	0.4642 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

ShuYan Liu, et al. SEC-induced Activation of ANXA7 GTPase Suppresses Prostate Cancer Metastasis. *Cancer Lett.* 2018 Mar 1;416:11-23.

ShuYan Liu, et al. A small molecule induces integrin β 4 nuclear translocation and apoptosis selectively in cancer cells with high expression of integrin β 4. *Oncotarget.* 2016 Mar 29; 7(13): 16282-16296.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481