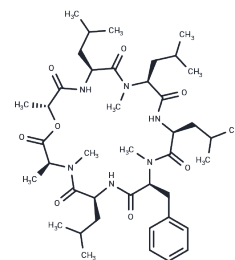


## Cotransin

## Chemical Properties

CAS No. :	863753-73-5
Formula:	C42H68N6O8
Molecular Weight:	785.02
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Cotransin, a Sec61 translocation inhibitor, selectively prevents the stable insertion of certain nascent chains into the Sec61 translocation channel, exhibiting signal-sequence discrimination. This compound also inhibits the expression of VCAM-1 and p-selectin proteins by blocking their co-translational translocation across endoplasmic reticulum (ER) membranes (IC <sub>50</sub> = 0.5-5 μM). Cotransin's role extends to potential applications in inflammation and immunity research [1] [2].
In vitro	Cotransin inhibits the expression of proteins such as VCAM-1, P-selectin, angiotensinogen, β-lactamase, CRF1, ETBR, AQP2, HER-3, and TNF-α by preventing their cotranslational translocation across the endoplasmic reticulum (ER) membrane, with an IC <sub>50</sub> range of 0.5-5 μM [1]. It also selectively inhibits a subset of secretory and membrane proteins [2]. In COS-7 cells, Cotransin at concentrations of 1 and 5 μM for 24 hours, exhibits selective, potent, and reversible inhibition of VCAM1 [2]. The compound interferes with signal sequence recognition by the Sec61 complex [2]. Western Blot Analysis [2] Cell Line: COS-7 cells (transfected with a VCAM1 expression plasmid or not) Concentration: 1, 5 μM Incubation Time: 24 h Result: Showed selective, potent and reversible inhibition to VCAM1.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2739 mL	6.3693 mL	12.7385 mL
5 mM	0.2548 mL	1.2739 mL	2.5477 mL
10 mM	0.1274 mL	0.6369 mL	1.2739 mL
50 mM	0.0255 mL	0.1274 mL	0.2548 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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