## **Product Information**

**Description:** Decanoyl-Arg-Val-Lys-Arg-chlororomethylketone, also called

Subtilisin/Kex2p-like proprotein convertase inhibitor, is a small, synthetic, irreversible and cell-permeable modified RVKR peptide that inhibits the seven pro-protein convertases: furin and PC1, PC2, PC4, PACE4, PC5, PC7. Proprotein convertases cleave proproteins to generate bioactive peptides or to activate enzymes and growth factors, thus regulating critical biological processes and playing a role in pathologies such as cancer or viral infection. Therefore, they represent potential therapeutic targets in a number of diseases.

As an inhibitor of furin, Decanoyl-RVKR-CMK blocks the fusion of flavaviruses and coronaviruses, including SARS-CoV-2, with the membrane of human host cells. It also inhibits the processing of proET-1 in endothelial cells and the secretion of VGF in PC12 cells.

Molecular Formula: C<sub>34</sub>H<sub>66</sub>ClN<sub>11</sub>O<sub>5</sub>

**Amount:** 500 μg (#78713-1) or 1 mg (#78713-2) or 5 mg (#78713-3)

**PubChem ID:** 9962075

Supplied As: A crystalline solid

Solubility: Soluble in water. For obtaining a higher solubility, warm the tube at 37°C

and shake it in the ultrasonic bath for a while.

Stability: At least 6 months at -20°C. Avoid freeze/thaw cycles.

 Storage:
 -20°C

 MW:
 744.42

 Cas No.
 150113-99-8

Purity: ≥95% determined by HPLC

Applications: Inhibition of furin and related endoprotease/proprotein convertase (PC1, PC2, PC4,

PACE4, PC5, PC7)

Useful as control inhibitor when using the Furin Protease Assay Kit BPS Bioscience

#78040)

Useful when studying the role of Furin in viral fusion with BPS Bioscience Spike

pseudoviruses or ACE2-HEK cell lines.

## Chemical Structure

