Furin convertase substrate

Cat. No. Furin-01 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	luorogenic substrate for furin/SPC1/PACE/PCSK3 and other subtilisin/kexin-like proprotein convertases such as Kex2, SPC2/PC2/PCSK2, SPC3/PCSK1, PACE4/SPC4/PCSK6, SPC5/PC4/PCSK4, SPC6/PC5/PC6/PCSK5, and SPC7/LPC/PC7/PC8/PCSK7. Can be used on live cells.
Description	Kelch-like ECH-associated protein 1, also known as cytosolic inhibitor of Nrf2, Kelch-like protein 19, KEAP1 and INRF2, is a cytoplasm and nucleus protein which contains one BACK (BTB/Kelch associated) domain, one BTB (POZ) domain and six Kelch repeats. KEAP1 / INRF2 is broadly expressed, with highest levels in skeletal muscle. KEAP1 / INRF2 is a key regulator of the NRF2 transcription factor, which transactivates the antioxidant response element (ARE) and upregulates numerous proteins involved in antioxidant defense. Under basal conditions, KEAP1 / INRF2 targets NRF2 for ubiquitination and proteolytic degradation and as such is responsible for the rapid turnover of NRF2. KEAP1 / INRF2 retains NFE2L2 / NRF2 in the cytosol. KEAP1 / INRF2 functions as substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1. It targets NFE2L2 / NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. KEAP1 / INRF2 may also retain BPTF in the cytosol. It targets PGAM5 for ubiquitination and degradation by the proteasome.
Appearance	White to off-white powder.
Molecular Mass	843

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AA Sequence	Boc-Arg-Val-Arg-Arg-AMC (AMC=7-Amino-4-methylcoumarin)
Purity	≥95% (HPLC; TLC)
Storage	-20°C

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