



# SZABO SCANDIC

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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

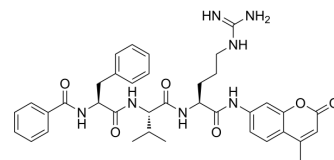
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Bz-FVR-AMC

<b>Cat. No.:</b>	HY-D1634
<b>CAS No.:</b>	88899-22-3
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>43</sub> N <sub>7</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	681.78
<b>Target:</b>	Cathepsin
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 125 mg/mL (183.34 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4667 mL	7.3337 mL	14.6675 mL
5 mM	0.2933 mL	1.4667 mL	2.9335 mL
10 mM	0.1467 mL	0.7334 mL	1.4667 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

Bz-FVR-AMC is a fluorogenic substrate for procathepsin with a  $k_{cat}/K_m$  value of  $1070 \text{ mM}^{-1}\text{s}^{-1}$ . The high concentration of Bz-FVR-AMC inhibits the substrate<sup>[1][2]</sup>.

### In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).  
Processing and activation of procathepsin S<sup>[2]</sup>:

1. Autocatalytic activation of procathepsin S was studied by incubation (final concentration 1-5  $\mu\text{M}$ ) at 37 °C in 0.5 mL of the appropriate buffer containing 2.5 mM dithiothreitol.
2. Aliquots of 10  $\mu\text{l}$  were taken from the reaction mixture at the times indicated and mixed with 2.5 ml of substrate solution (10  $\mu\text{M}$  Bz-FVR-AMC in 0.1 M phosphate buffer, pH 6.5, containing 1 mM [EDTA](#) (HY-Y0682) and 0.1% (w/v) polyethylene glycol 6000).
3. Fluorescence of the released AMC was then monitored continuously for 1 min in a pectrofluorimeter at excitation and emission wavelengths of 370 and 460 nm.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. Vasiljeva O, et al. Recombinant human procathepsin S is capable of autocatalytic processing at neutral pH in the presence of glycosaminoglycans. FEBS Lett. 2005 Feb 14;579(5):1285-90.
- [2]. Vasiljeva O, et al. Recombinant human cathepsin H lacking the mini chain is an endopeptidase. Biochemistry. 2003 Nov 25;42(46):13522-8.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA