



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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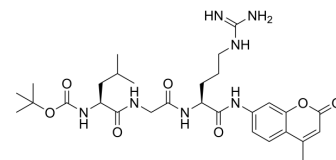
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## Boc-Leu-Gly-Arg-AMC

Cat. No.:	HY-P2237
CAS No.:	65147-09-3
Molecular Formula:	C <sub>29</sub> H <sub>43</sub> N <sub>7</sub> O <sub>7</sub>
Molecular Weight:	601.69
Sequence:	Boc-Leu-Gly-Arg-AMC
Sequence Shortening:	Boc-LGR-AMC
Target:	Amino Acid Derivatives
Pathway:	Others
Storage:	Sealed storage, away from moisture and light
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (166.20 mM; Need ultrasonic)  
H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6620 mL	8.3099 mL	16.6199 mL
	5 mM	0.3324 mL	1.6620 mL	3.3240 mL
	10 mM	0.1662 mL	0.8310 mL	1.6620 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (4.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.15 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Boc-Leu-Gly-Arg-AMC is a fluorogenic AMC substrate for the convertases. Boc-Leu-Gly-Arg-AMC can be used in enzymatic assays<sup>[1][2]</sup>.

## In Vitro

To demonstrate the presence in the abdominal gland of proteolytic enzymes capable of generating Sodefrin, an enzymatic assay was developed using Boc-Leu-Gly-Arg-AMC as synthetic substrate. A crude extract of the abdominal gland hydrolyzed Boc-Leu-Gly-Arg-AMC to liberate 7-amino-4-methylcoumarin, suggesting that enzymes that generate sodefrin from its precursor molecule are present in the gland. The activity in the extract for cleaving Boc-Leu-Gly-Arg-AMC is optimal at pH 9.0 and 45 °C<sup>[1]</sup>.

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

## REFERENCES

- [1]. Nakada T, et al. Evidence for processing enzymes in the abdominal gland of the newt, *Cynops pyrrhogaster*, that generate sodefrin from its biosynthetic precursor. *Zoolog Sci.* 2007 May;24(5):521-4.
- [2]. Yumiko Obayashi, et al. Proteolytic enzymes in coastal surface seawater: Significant activity of endopeptidases and exopeptidases *Limnol. Oceanogr.*, 50(2), 2005, 722-726.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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