



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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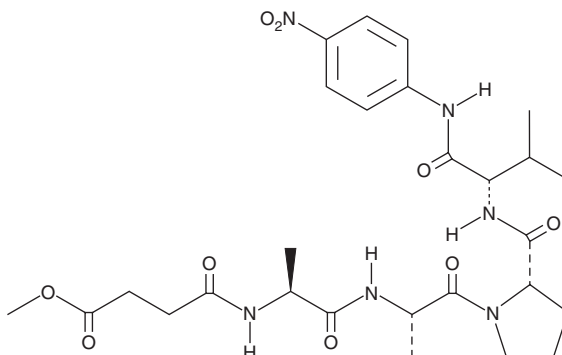
# PRODUCT INFORMATION



## MeOSuc-AAPV-pNA

Item No. 17601

**CAS Registry No.:** 70967-90-7  
**Formal Name:** N-(4-methoxy-1,4-dioxobutyl)-L-alanyl-L-alanyl-L-prolyl-N-(4-nitrophenyl)-L-valinamide  
**MF:** C<sub>27</sub>H<sub>38</sub>N<sub>6</sub>O<sub>9</sub>  
**FW:** 590.6  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 210, 224, 315 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

MeOSuc-AAPV-pNA is supplied as a crystalline solid. A stock solution may be made by dissolving the MeOSuc-AAPV-pNA in the solvent of choice, which should be purged with an inert gas. MeOSuc-AAPV-pNA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of MeOSuc-AAPV-pNA in ethanol is approximately 5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of MeOSuc-AAPV-pNA can be prepared by directly dissolving the crystalline solid in aqueous buffers. MeOSuc-AAPV-pNA is slightly soluble in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

### Description

MeOSuc-AAPV-pNA is a highly sensitive peptide substrate that is hydrolyzed by both human and mouse neutrophil elastase and PR3, but not cathepsin G or chymotrypsin.<sup>1,2</sup> Enzyme activity can be quantified by colorimetric detection of free *p*-nitroanilide at 405 nm.

### References

1. Wiesner, O., Litwiller, R.D., Hummel, A.M., *et al.* Differences between human proteinase 3 and neutrophil elastase and their murine homologues are relevant for murine model experiments. *FEBS Lett.* **579**(24), 5305-5312 (2005).
2. Korkmaz, B., Attucci, S., Hazouard, E., *et al.* Discriminating between the activities of human neutrophil elastase and proteinase 3 using serpin-derived fluorogenic substrates. *J. Biol. Chem.* **277**(42), 39074-39081 (2002).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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