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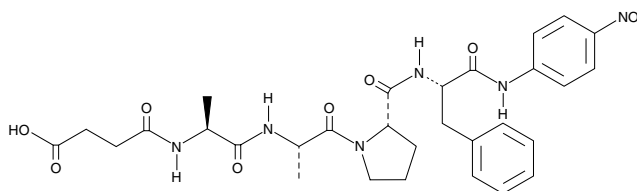
Product Information



Suc-AAPF-*p*NA

Item No. 14993

CAS Registry No.: 70967-97-4
Formal Name: N-(3-carboxy-1-oxopropyl)-L-alanyl-L-alanyl-L-prolyl-N-(4-nitrophenyl)-L-phenylalaninamide
Synonym: Succinyl-Ala-Ala-Pro-Phe-*p*-nitroanilide
MF: C₃₀H₃₆N₆O₉
FW: 624.7
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 314 nm



Laboratory Procedures

For long term storage, we suggest that Suc-AAPF-*p*NA be stored as supplied at -20°C. It should be stable for at least two years.

Suc-AAPF-*p*NA is supplied as a crystalline solid. A stock solution may be made by dissolving the Suc-AAPF-*p*NA in the solvent of choice. Suc-AAPF-*p*NA is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of Suc-AAPF-*p*NA in these solvents is approximately 5 mg/ml.

Suc-AAPF-*p*NA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Suc-AAPF-*p*NA should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Suc-AAPF-*p*NA has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Suc-AAPF-*p*NA is a chromogenic substrate that can be cleaved by cathepsin G (K_m = 1.7 mM), subtilisins, chymotrypsin (K_m = 60 μM), chymase (K_m = 4 mM), and cyclophilin, but not neutrophil elastase.¹⁻⁴ Release of *p*-nitroanilide is monitored at 405-410 nm. This substrate can be used for inhibitor screening and kinetic analysis.

References

1. Nakajima, K. and Powers, J.C. Mapping the extended substrate binding site of cathepsin G and human leukocyte elastase. *J. Biol. Chem.* **254**(10), 4027-4032 (1979).
2. Ermolieff, J., Boudier, C., Laine, A., *et al.* Heparin protects cathepsin G against inhibition by protein proteinase inhibitors. *J. Biol. Chem.* **269**(47), 29502-29508 (1994).
3. Kofron, J.L., Kuzmic, P., Kishore, V., *et al.* Determination of kinetic constants for peptidyl prolyl *cis-trans* isomerases by an improved spectrophotometric assay. *Biochemistry* **30**(25), 6127-6134 (1991).
4. Nakakubo, H., Fukuyama, H., Nakajima, M., *et al.* Secretory production of recombinant human chymase as an active form in *Pichia pastoris*. *Yeast* **16**(4), 315-323 (2000).

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