

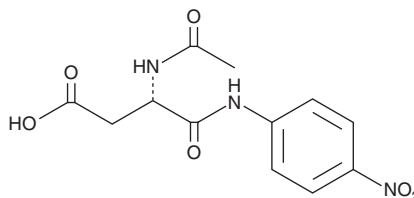
PRODUCT INFORMATION



Ac-Asp-pNA

Item No. 45241

CAS Registry No.: 41149-01-3
Formal Name: 3S-(acetylamino)-4-[(4-nitrophenyl)amino]-4-oxo-butanoic acid
Synonyms: Ac-Asp-p-nitroanilide, Protease Chromogenic Substrate
MF: C₁₂H₁₃N₃O₆
FW: 295.3
Purity: ≥98%
Supplied as: A 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

Ac-Asp-pNA is supplied as a solid. A stock solution may be made by dissolving the Ac-Asp-pNA in the solvent of choice, which should be purged with an inert gas. Ac-Asp-pNA is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

Ac-Asp-pNA is a colorimetric substrate for proteases.^{1,2} Proteases bind to and cleave Asp to release p-nitroanilide (pNA), which can be quantified by colorimetric detection at 405 nm as a measure of protease activity.

References

1. Kakudo, S., Kikuchi, N., Kitadokoro, K., *et al.* Purification, characterization, cloning, and expression of a glutamic acid-specific protease from *Bacillus licheniformis* ATCC 14580. *J. Biol. Chem.* **267**(33), 23782-23788 (1992).
2. Wu, S.Y., Park, G.Y., Kim, S.H., *et al.* Diminazene aceturate: An antibacterial agent for Shiga-toxin-producing *Escherichia coli* O157:H7. *Drug Des. Devel. Ther.* **10**, 3363-3378 (2016).

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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM