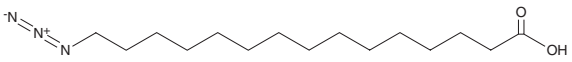
PRODUCT INFORMATION

15-azido Pentadecanoic Acid

Item No. 46224

CAS Registry No.: 118162-46-2
Formal Name: 15-azido-pentadecanoic acid
Synonyms: C15:0 Azide, FA 15:0 Azide, Azido-Palmitic Acid, Pentadecanoic Acid Azide, ω-azido Pentadecanoic Acid
MF: $C_{15}H_{29}N_3O_2$
FW: 283.4
Purity: ≥95%
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

15-azido Pentadecanoic acid is supplied as a solid. A stock solution may be made by dissolving the 15-azido pentadecanoic acid in the solvent of choice, which should be purged with an inert gas. 15-azido Pentadecanoic acid is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

15-azido Pentadecanoic acid, also known as azido-palmitic acid, is a clickable form of pentadecanoic acid (Item No. 17399). It has been used in the study of glutathione peroxidase 4 (GPX4) palmitoylation in the context of ferroptosis in cancer cells and for metabolic labeling followed by conjugation to biotin-labeled reporters *via* copper(I)-catalyzed azide-alkyne cycloaddition (CuAAC) and strain-promoted alkyne-azide cycloaddition (SPAAC) *in vitro*.[1,2] 15-azido Pentadecanoic acid has also been used in the synthesis of fluorescent probes for *in vivo* and *ex vivo* imaging of free fatty acid uptake in the heart and brown adipose tissue in mice.[3]

References

1. Zhou, L., Lian, G., Zhou, T., *et al.* Palmitoylation of GPX4 via the targetable ZDHHC8 determines ferroptosis sensitivity and antitumor immunity. *Nat. Cancer* **6(5)**, 768-785 (2025).
2. Zhang, Y., Li, J., Pei, X., *et al.* A SPAAC-based bioorthogonal method for verifying protein palmitoylation. *Bio. Protoc.* **16(18)**, e5835 (2026).
3. Panagia, M., Yang, J., Gale, E., *et al.* A novel tracer for in vivo optical imaging of fatty acid metabolism in the heart and brown adipose tissue. *Sci. Rep.* **10(1)**, 11209 (2020).

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