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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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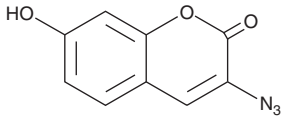
PRODUCT INFORMATION

3-azido-7-hydroxy Coumarin

Item No. 10596

CAS Registry No.: 817638-68-9
Formal Name: 3-azido-7-hydroxy-2H-1-benzopyran-2-one
Synonyms: 3-azido-7-Hydroxycoumarin, AHC, Azidohydroxycoumarin
MF: $C_9H_5N_3O_3$
FW: 203.2
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Ex./Em. Max: 404/477 nm



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

Laboratory Procedures

3-azido-7-hydroxy Coumarin is supplied as a solid. A stock solution may be made by dissolving the 3-azido-7-hydroxy coumarin in the solvent of choice, which should be purged with an inert gas. 3-azido-7-hydroxy Coumarin is soluble in methanol, acetonitrile and DMSO.

Description

3-azido-7-hydroxy Coumarin is a click-reactive fluorescent dye.[1,2] Upon copper(I)-catalyzed azide/alkyne cycloaddition (CuAAC) in a biological system, a fluorescent product is produced that displays excitation/emission maxima of 404 and 477 nM, respectively. 3-azido-7-hydroxy Coumarin has been used for spatially restricted metabolite labeling and the detection of foodborne pathogens.

References

1. You, H., Wang, M., Wang, S., *et al.* Ultrasensitive and specific phage@DNAzyme probe-triggered fluorescent click chemistry for on-site detection of foodborne pathogens using a smartphone. *Anal. Chem.* **95(30)**, 11211-11218 (2023).
2. Mishra, P.K., Sharma, N., Kim, H., *et al.* Gen-Click: Genetically encodable click reactions for spatially restricted metabolite labeling. *ACS Cent. Sci.* **9(8)**, 1650-1657 (2023).

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