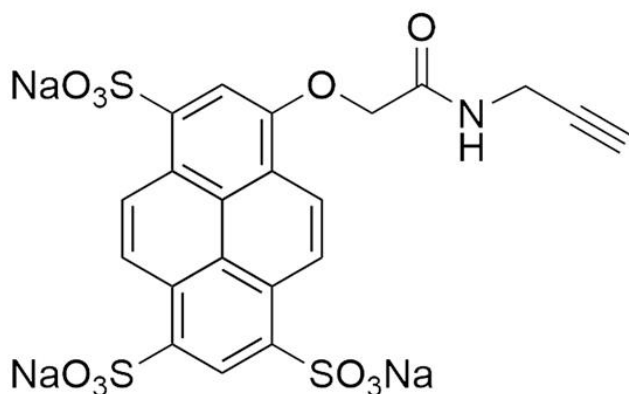




AZDYE 405 ALKYNE

SKU: CCT-1309



DESCRIPTION

AZDye™ 405 Alkyne reacts with azides via a copper-catalyzed click reaction (CuAAC) to form a stable triazole linker. AZDye™ 405 is often used in multicolor applications, including flow cytometry and super-resolution microscopy using STORM.

AZDye™ 405 is a bright, blue-fluorescent probe optimally excited by the 407 nm spectral line of the krypton laser or the 408 nm violet laser diode. This probe is water-soluble and its fluorescence is pH independent over a wide pH range. The brightness and photostability of this dye are best suited to direct imaging of moderate-abundance targets.

AZDye™ 405 is structurally similar to Alexa Fluor® 405 or Cascade Blue, and spectrally is a match to DyLight® 405, Alexa Fluor® 405, CF® 405S Dye, Cascade Blue, or any other sulfonated pyrene based fluorescent dyes.

DyLight® and Alexa Fluor® are a registered trademarks of Thermo Fisher Scientific. CF® Dye is a registered trademark of Biotium, Inc

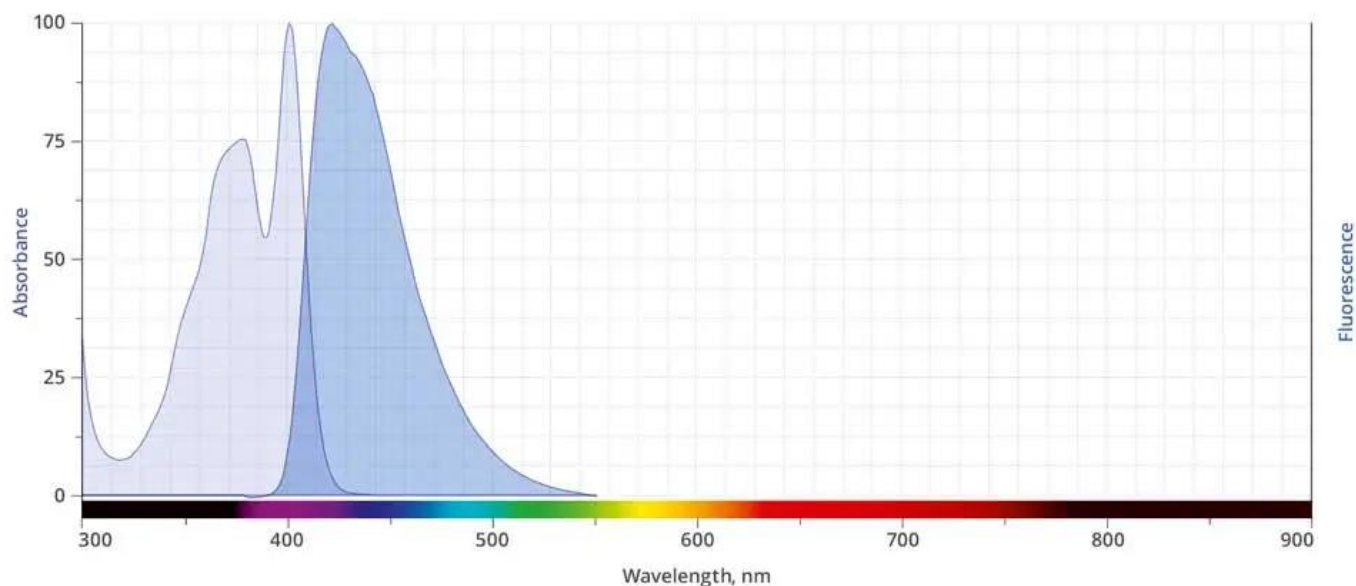
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



SPECIFICATIONS

CAS Number	N/A
Molecular Weight	553.53 (protonated), 619.47 (sodium salt)
Appearance	Yellow solid
Extinction Coefficient	35,000
Purity	>95% (HPLC)
Unit Size	1 mg, 5 mg, 25 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 405, CF® 405, Cascade Blue®, DyLight® 405
Laser Line	405 nm
Excitation/Emission Maximum	402/424 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA



For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



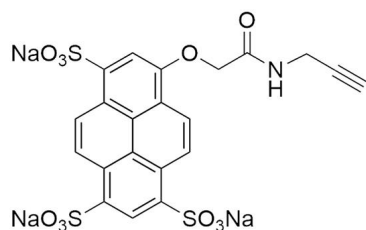
SELECTED REFERENCES

1. Costello, A., *et al.* (2021). Directed evolution of rRNA improves translation kinetics and recombinant protein yield. *Nat Commun.*, **12 (1)**, 5638. [[PubMed](#)]

DOCUMENTS

- [Safety Data Sheet](#)
- [Download CoA](#)
- [Datasheet](#)

GALLERY IMAGES



For research use only. Not intended for therapeutic or diagnostic use in animals or humans.