www.vectorlabs.com
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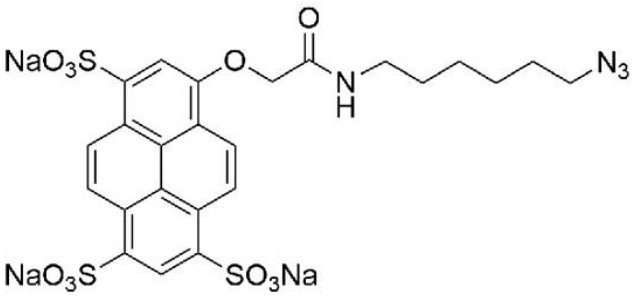
AZDYE 405 AZIDE

SKU: CCT-1307



Description

AZDye™ 405 Azide can be reacted with terminal alkynes via a copper-catalyzed click reaction (CuAAC). It also reacts with strained cyclooctyne via a copper-free “click chemistry” reaction to form a stable triazole and does not require Cu-catalyst or elevated temperatures.

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.

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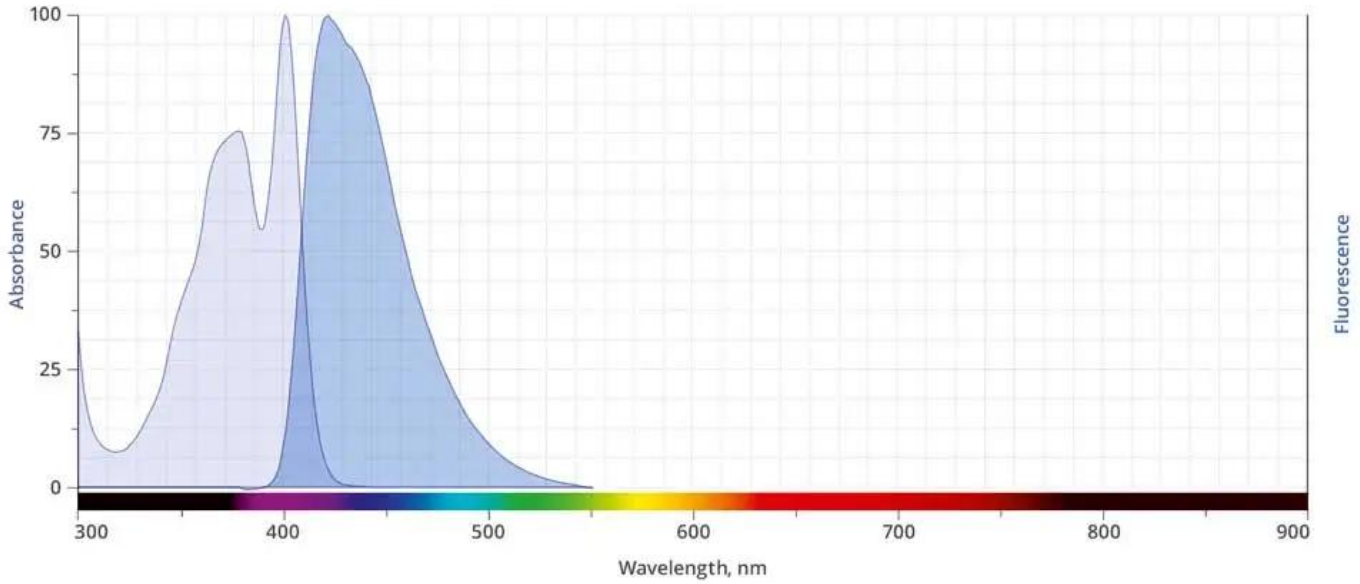

Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	402/424 nm
Extinction Coefficient	35,000
Flow Cytometry Laser Line	405 nm
Microscopy Laser Line	405 nm
Spectrally Similar Dyes	Alexa Fluor® 405, CF® 405, Cascade Blue®, DyLight® 405
Molecular weight	640.65 (protonated) 706.60 (sodium salt)
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Yellow solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature