Product Datasheet

Alexa fluor 488 azide ditriethylamine

Catalog No. **BP-03742** · CAS **1006592-64-8** · Form **free base** · Physical state **solid** · Color **Orange to reddish brown** · Version **1.0** · Revision **2026-11-13**

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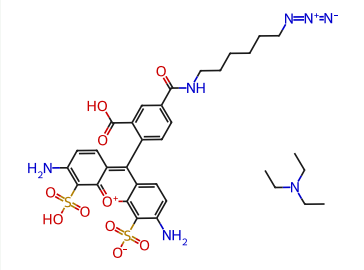
Target	Research area
Fluorescent Dye	**Others**

Molecular formula	$C_{33}H_{41}N_7O_{10}S_2$
Molecular weight	**759.8500**

STRUCTURE



DESCRIPTION

Alexa fluor 488 azide ditriethylamine is a multifunctional dye. Dyes are important tools in biological experiments. They can help researchers observe and analyze cell structures, track biomolecules, evaluate cell functions, distinguish cell types, detect biomolecules, study tissue pathology and monitor microorganisms. Their applications range from basic scientific research to clinical A wide range of diagnostics. Dyes are also widely used in traditional fields such as textile dyeing, as well as in emerging fields such as functional textile processing, food pigments and dye-sensitized solar cells.

BIOLOGICAL ACTIVITY

Alexa fluor 488 azide ditriethylamine exhibits a high fluorescence intensity, and can provide strong signals in imaging and detection[2].

Alexa fluor 488 azide ditriethylamine is insensitivity in a broad pH-range, and is resistant to photobleaching, which is various stable in biological environments, and prevents fluorescence loss in long-term imaging[2].

Alexa fluor 488 azide ditriethylamine is often used for target molecule conjugation, such as antibodies labeling, that can be for detection and imagnation specific proteins

SOLUBILITY

Soluble in DMSO : 31.25 mg/mL

In vitro	DMSO : 31.25 mg/mL

REFERENCES

[1]. Sultana M, et al. A review on experimental chemically modified activated carbon to enhance dye and heavy metals adsorption[J]. Cleaner engineering and technology, 2022, 6: 100382.

[2]. Panchuk-Voloshina N, et al., Alexa dyes, a series of new fluorescent dyes that yield exceptionally bright, photostable conjugates. J Histochem Cytochem. 1999 Sep;47(9):1179-88.

[3]. Nishimura A, et al., Identification of a novel prenyl and palmitoyl modification at the CaaX motif of Cdc42 that regulates RhoGDI binding. Mol Cell Biol. 2013 Apr;33(7):1417-29.

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