

## **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

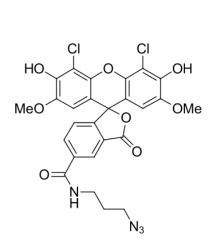
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

## JOE azide, 5-isomer

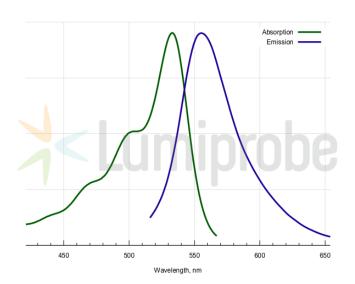
http://www.lumiprobe.com/p/joe-azide-5

JOE is a fluorescent dye with the emission in yellow region of the spectrum. The fluorophore matches channel of HEX dye, another chlorinated fluorescein.

JOE dye is often used in qPCR; oligo labeling can be achieved using click chemistry. This is an azide derivative of JOE for click chemistry, pure 5-isomer.



Structure of 5-JOE azide



Absorption and emission spectra of JOE dye

## **General properties**

Appearance: red solid
Mass spec M+ increment: 586.1
Molecular weight: 587.37

CAS number: 1422178-11-7 Molecular formula:  $C_{26}H_{20}N_4Cl_2O_8$ 

Solubility: good in DMF, DMSO

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for

safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food

or pharmaceutical products, in medical devices or in cosmetic products.

## **Spectral properties**

Excitation/absorption maximum, nm: 533  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 75000 Emission maximum, nm: 554 Fluorescence quantum yield: 0.61  $CF_{260}$ : 0.36  $CF_{280}$ : 0.28