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AF 488 amine

http://www.lumiprobe.com/p/af-488-amine-5

AF 488 is a stable dye over a broad pH range (from 4 to 10) with the fluorescence peak in the green region (at 519 nm).

Conjugates of biomolecules with AF 488 can be used in flow cytometry, for example in multicolor staining. AF 488 is also used in cell microscopy due to its high photostability.

AF 488 amine is soluble in water and can be conjugated with electrophiles and participate in enzymatic transamination.

Structure of AF 488 amine

General properties

Appearance: orange crystals

Molecular weight: 733.87

Molecular formula: $C_{33}H_{43}N_5O_{10}S_2$

Solubility: good in water, DMF, DMSO

Quality control: NMR ¹H and HPLC-MS (95+%)

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

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

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: 495 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 71800 Emission maximum, nm: 519 Fluorescence quantum yield: 0.91 CF_{260} : 0.16 CF_{280} : 0.10