

## Product Data Sheet

Product Name: TFX 488, SE

Cat. No.: GC50521

### Chemical Properties

Cas. No. 222164-96-7

SMILES [NH2+]=C1C=CC2=C(C3=CC=C(C(ON4C(CCC4=O)=O)=O)C=C3C([O-])=O)C5=CC=C(N)C(S(=O)([O-])=O)=C5OC2=C1S(=O)([O-])=O

Formula  $C_{25}H_{15}N_3O_{13}S_2Li_2$  M.Wt 643.41

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Amine reactive green fluorescent dye. Insensitive to pH in the range 4 - 10. Forms bright and photostable conjugates with proteins and antibodies. Suitable for use in flow cytometry, two-photon excitation microscopy (TPE), and super resolution microscopy techniques, such as dSTORM, SIM and STED. Excitation maximum = 495 nm; emission maximum = 515 nm; extinction coefficient = 73,000 M<sup>-1</sup>cm<sup>-1</sup>; quantum yield = 0.92.

Rossi et al (2012) Super-resolution imaging of aquaporin-4 orthogonal arrays of particles in cell membranes. J.Cell Sci. 125 4405 PMID:22718347 | Burnette et al (2011) Bleaching/blinking assisted localization microscopy for superresolution imaging using standard fluorescent molecules. Proc.Natl.Acad.Sci.USA. 108 21081 PMID:22167805 | van de Linde et al (2011) Direct stochastic optical reconstruction microscopy with standard fluorescent probes. Nat.Protoc. 6 991 PMID:21720313 | Iwata et al (2005) Increased susceptibility of cytoplasmic over nuclear polyglutamine aggregates to autophagic degradation. Proc.Natl.Acad.Sci.USA. 102 13135 PMID:16141322 | Panchuk-Voloshina et al (1999) Alexa dyes, a series of new fluorescent dyes that yield exceptionally bright, photostable conjugates. J.Histochem.Cytochem. 47 1179 PMID:10449539

**Caution: Product has not been fully validated for medical applications. For research use only.**

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