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## Product Data Sheet

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Product Name: TFX 568, SE

Cat. No.: GC50525

**Chemical Properties**

Cas. No. 878549-44-1

CC(C=C1CS(=O)(O)=O)

SMILES (C)NC2=C1C=C(C(C3=CC=C(C(ON4C(CCC4=O)=O)=O)=O)C=C3C(O)=O)=C5C(O6)=CC7=[NH+]C(C)(C)C=C(CS(=O)([O-])=O)C7=C5)C6=C2

Formula C<sub>37</sub>H<sub>33</sub>N<sub>3</sub>O<sub>13</sub>S<sub>2</sub> M.Wt 791.8

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure **Background**

Amine reactive orange 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, 2-photon excitation microscopy, and super resolution microscopy techniques, such as dSTORM. Excitation maximum = 578 nm; emission maximum = 602 nm; quantum yield = 0.69; extinction coefficient = 60720 M<sup>-1</sup>cm<sup>-1</sup>.

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 |Van de Linde et al (2011) Direct stochastic optical reconstruction microscopy with standard fluorescent probes Nature Protocols 6 991 |Rossi et al (2012) Super-resolution imaging of aquaporin-4 orthogonal arrays of particles in cell membranes. J.Cell Sci. 125 4405 PMID:22718347

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

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