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**Product Data Sheet**


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Product Name: Mito-TRFS

Cat. No.: GC19407

**Chemical Properties**

Cas. No. 1859102-62-7

SMILES O=C(C1=CC=C(NC(OC2CSSC2)=O)C3=CC=CC4=C13)N(CCOCC[P+](C5=CC=CC=C5)(C6=CC=CC=C6)C7=CC=CC=C7)C4=O.[I-]

|         |  |      |       |
|---------|--|------|-------|
| Formula | C <sub>38</sub> H <sub>34</sub> IN <sub>2</sub> O <sub>5</sub> PS <sub>2</sub> | M.Wt | 820.7 |
|---------|--|------|-------|

|            |                 |         |                |
|------------|-----------------|---------|----------------|
| 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**

Mito-TRFS is the first off-on probe for imaging the mitochondrial thioredoxin reductase (TrxR2) in live cells.

Reference:

[1]: Liu Y, Ma H, Zhang L, Cui Y, Liu X, Fang J. A small molecule probe reveals declined mitochondrial thioredoxin reductase activity in a Parkinson's disease model. Chem Commun (Camb). 2016 Feb 7;52(11):2296-9. doi: 10.1039/c5cc09998f. PubMed PMID: 26725656.

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

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