
Product Data Sheet

Product Name: PARPi-FL

Cat. No.: GC50459

Chemical Properties

Cas. No. 1380359-84-1

SMILES CC1=CC(C)=[N+]2C1=CC3=CC=C(N3[B-]2(F)F)CCC(N4CCN(C(C5=CC(CC6=NNC(C7=CC=CC=C67)=O)=CC=C5F)=O)CC4)=O

Formula $C_{34}H_{32}BF_3N_6O_3$ M.Wt 640.46

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

Fluorescent potent PARP inhibitor ($IC_{50} = 12$ nM). Composed of a PARP inhibitor conjugated to BDY FL, SE . Colocalizes with PARP immunostaining in multiple cancer cell lines in vivo and accumulates in tumor cells and tumor associated macrophages. Enables high temporal and subcellular spatial resolution of drug distribution. Emission max = 525 nm. Cell permeable.

Thurber et al (2013) Single-cell and subcellular pharmacokinetic imaging allows insight into drug action in vivo. Nat. Commun. 4 1504 PMID:23422672 |Thurber et al (2014) Effect of small-molecule modification on single-cell pharmacokinetics of PARP inhibitors. Mol. Cancer Ther. 13 986 PMID:24552776 |Dubach et al (2017) Quantitating drug-target engagement in single cells in vitro and in vivo. Nat. Chem. Biol. 13 168 PMID:27918558

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

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