

## Product Data Sheet

Product Name: BBR-BODIPY

Cat. No.: GC71008

### Chemical Properties

Cas. No. 2456476-47-2

Formula  $C_{47}H_{48}BClF_2N_6O_5$  M.Wt 861.18

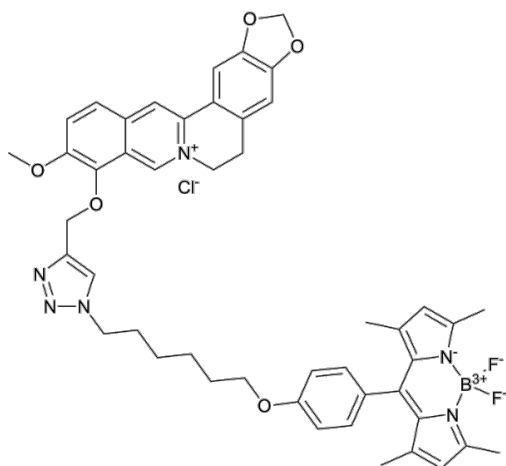
Solubility DMSO : 62.5 mg/mL (72.57 mM); ultrasonic and warming and heat to 60°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage -20°C, protect from light

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

BBR-BODIPY is a fluorescent probe that allows screening its interaction with the targeted cells. BBR-BODIPY induces apoptosis and changes the expression of apoptosis-related proteins.

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

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BBR-BODIPY (1-32  $\mu$ M; 24 hours; MCF7 and MDA-MB-231 cells) has anti-proliferative activity [1].  
BBR-BODIPY (2-16  $\mu$ M; 5-60 mins; MCF7 cells) could be quickly taken up into MCF7 cells in 5 mins and the fluorescence intensity exhibits a time-dependent manner [1].

BBR-BODIPY (1-32  $\mu$ M; 24 hours; MCF7 and MDA-MB-231 cells) accumulates in mitochondria and overlaps with Mito tracker red to display yellow fluorescence with a Pearsons co-localization coefficient of 0.72 [1].

BBR-BODIPY (8  $\mu$ M, 12 hours) induces apoptosis in MCF7 cells through a mitochondrial pathway [1].

### References:

[1]. Jin M, et al. Synthesis of a novel fluorescent berberine derivative convenient for its subcellular localization study. Bioorg Chem. 2020 Aug;101:104021.

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