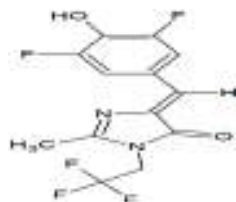


DFHBI-1T

ALTERNATE NAME: DFHBI1T
(Z)-4-(3,5-difluoro-4-hydroxybenzylidene)-2-methyl-1-(2,2,2-trifluoroethyl)-1H-imidazol-5(4H)-one

CATALOG #: B2799-1 1 mg
B2799-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₃H₉F₅N₂O₂

MOLECULAR WEIGHT: 320.21

CAS NUMBER: 1539318-36-9

APPEARANCE: Yellow solid

PURITY: ≥98% by HPLC

SOLUBILITY: >15 mg/ml Ethanol
>30 mg/ml DMSO

DESCRIPTION: DFHBI-1T is a mimic of green fluorescent protein (GFP) fluorophore for imaging RNA in living cells. Fluorescence is activated by binding to Spinach2 or Broccoli aptamers. Displays peak excitation maxima of 482 nm and peak fluorescence emission of 505 nm when bound to Spinach2, enabling imaging with GFP filter cubes. DFHBI-1T has been found to have lower background fluorescence than DFHBI (Cat. No. B2797) and exhibits an overall increase in brightness in living cells. DFHBI-1T is cell-permeable with negligible toxicity in living cells and can be used to label any genetically encoded Spinach™, Spinch2™, and Broccoli™ RNA tags.

STORAGE TEMPERATURE: -20°C. Protect from light

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

BI (B2798)
DFHO (B3201)
DFHBI (B2797)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*