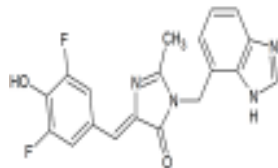


BI

ALTERNATE NAME: (Z)-3-((1H-Benzo[d]imidazol-4-yl)methyl)-5-(3,5-Difluoro-4-Hydroxybenzylidene)-2-Methyl-3,5-Dihydro-4H-Imidazol-4-One

CATALOG #: B2798-1 1 mg
B2798-500 500 µg

STRUCTURE:



MOLECULAR FORMULA: C₁₉H₁₄F₂N₄O₂

MOLECULAR WEIGHT: 368.3

CAS NUMBER: N/A

APPEARANCE: Yellow solid

PURITY: ≥98% by HPLC

SOLUBILITY: >10 mg/ml DMSO

DESCRIPTION: BI is a derivative of DFHBI (Cat. No. B2797) that binds Broccoli™ with higher affinity and deliver improved cellular fluorescence. In cells, BI has been found to stabilize the Broccoli™ structure and promote its folding. Additionally, Broccoli™/BI complexes is significantly more photostable due to impaired light-induced photoisomerization, and rapid unbinding of photoisomerized cis-BI. BI is cell-permeable with negligible toxicity in living cells and can be used to label any genetically encoded Broccoli™ RNA tag without disrupting biological functions. Importantly, the optimized fluorescence properties of BI enable live single-molecule imaging of Broccoli™-tagged mRNA transcripts in mammalian cells.

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:

DFHBI-1T (B2799)
DFHO (B3201)
DFHBI (B2797)

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