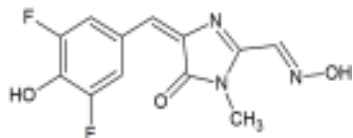


# DFHO

**ALTERNATE NAME:** 3,5-difluoro-4-hydroxybenzylidene imidazolinone-2-oxime

**CATALOG #:** B3201-1 1 mg  
B3201-set 1 set (5 x 1 mg)

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>12</sub>H<sub>9</sub>F<sub>2</sub>N<sub>3</sub>O<sub>3</sub>

**MOLECULAR WEIGHT:** 281.22

**CAS NUMBER:** 1420815-34-4

**APPEARANCE:** Orange solid

**PURITY:** ≥98% by HPLC

**SOLUBILITY:** >25 mg/ml DMSO

**DESCRIPTION:** Mimic of red fluorescent protein (RFP) fluorophore for imaging RNA in living cells. Upon binding to the Corn™ aptamer, DFHO is converted to a highly fluorescent state that can be detected at the emission wavelength of 545 nm. DFHO can also bind Broccoli™ derivative aptamers and turn on their fluorescence. DFHO is cell-permeable with negligible toxicity in living cells and can be used to label any genetically encoded Corn™ RNA tag. When bound to Corn™, DFHO has been found to be highly photostable compared to DFHBI (Cat. No. B2797), DFHBI-1T (B2799), and mVenus. The photostability of DFHO was demonstrated in the imaging and quantitative measurement of cellular Pol III promoter activity in living 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)  
BI (B2798)  
DFHBI (B2797)

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