

Product Data Sheet

Product Name: DFHO
Cat. No.: GC50451

Chemical Properties

Cas. No. 1420815-34-4

SMILES CN1C(/C=N/O)=N/C(C1=O)=C\C2=CC(F)=C(C(F)=C2)O

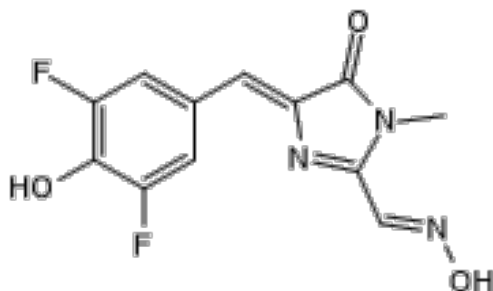
Formula $C_{12}H_9F_2N_3O_3$ M.Wt 281.22

Solubility DMSO : 100 mg/mL (355.61 mM; Need ultrasonic) Storage 4°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

Mimic of red fluorescent protein (RFP) fluorophore for imaging RNA in living cells. Fluorescence is activated by binding to Corn aptamer ($K_d = 70$ nM). Excitation/emission maxima (λ) = 505/545 nm; extinction coefficient = 29000 M⁻¹ cm⁻¹.

Song et al (2017) Imaging RNA polymerase III transcription using a photostable RNA-fluorophore complex. Nat.Chem.Biol. 13 1187 PMID:28945233 | Warner et al (2017) A homodimer interface without base pairs in an RNA mimic of red fluorescent protein. Nat.Chem.Biol. 13 1195 PMID:28945234

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

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