

Product Data Sheet

Product Name: DFAME
Cat. No.: GC74660

Chemical Properties

Cas. No. 1420815-55-9

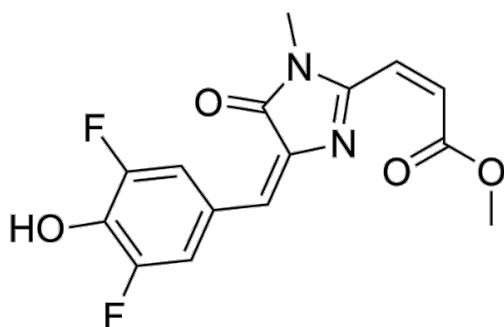
Formula $C_{15}H_{12}F_2N_2O_4$ M.Wt 322.26

Solubility DMSO : 100 mg/mL (310.31 mM; Need ultrasonic) 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

DFAME is a red fluorophore ($\text{Ex}=508\text{ nm}$, $\text{Em}=641\text{ nm}$). Beetroot and Corn are dimeric fluorogenic RNA aptamers that can bind to DFAME to form Beetroot-DFAME ($K_d=460\text{ nM}$) and Corn-DFAME ($K_d=3600\text{ nM}$). Beetroot-DFAME ($K_d=460\text{ nM}$) and Corn-DFAME can be used to form RNA assemblies in living cells. Creating RNA assemblies can be used for the study of RNA

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

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Nanostructures. DNA/RNA Nanostructures would be useful in cell and gene therapy (CGT) research.

References:

[1]. Jiahui Wu, et al. Self-Assembly of Intracellular Multivalent RNA Complexes Using Dimeric Corn and Beetroot Aptamers. J Am Chem Soc. 2022 Mar 30;144(12):5471-5477.

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