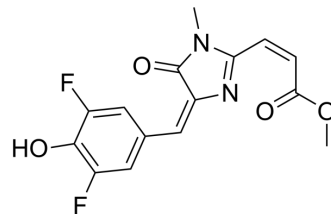


DFAME

Cat. No.:	HY-W073524
CAS No.:	1420815-55-9
Molecular Formula:	C ₁₅ H ₁₂ F ₂ N ₂ O ₄
Molecular Weight:	322.26
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

DFAME is a red fluorophore (Ex=508 nm, Em=641 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 Nanostructures. DNA/RNA Nanostructures would be useful in cell and gene therapy (CGT) research^[1].

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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA