

## Product Data Sheet

Product Name: ARN1203

Cat. No.: GC42853

### Chemical Properties

Cas. No. 1428445-15-1

SMILES O=C(NCC(O)CF)CCC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCCCC

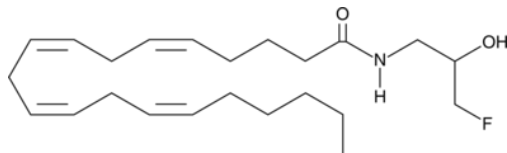
Formula C23H38FNO2 M.Wt 379.6

Solubility DMF: 30 mg/ml, DMSO: 25 mg/ml, Ethanol: 50 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.3 mg/ml  
Storage Store at -20°C

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

Arachidonoyl ethanolamide, also known as anandamide, is an endogenous ligand of the cannabinoid receptors. AEA is metabolized by fatty acid amide hydrolase (FAAH) to give arachidonic acid and ethanolamine. ARN1203 is a fluorinated analog of AEA that serves as a substrate of FAAH ( $K_m = 29 \mu M$ ). Fluorinated substrates, like ARN1023, are used in 'n-fluorine atoms for biochemical screening' (n-FABS) assays, NMR functional assays that directly measure the conversion of the substrate into product. ARN1203 is used to perform n-FABS against FAAH to identify novel inhibitors.

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

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