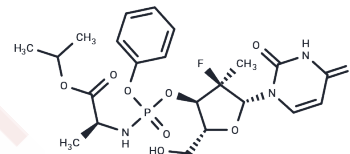


Sofosbuvir impurity G

Chemical Properties

CAS No. : 1337482-15-1
 Formula: C₂₂H₂₉FN₃O₉P
 Molecular Weight: 529.45
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

| | |
|----------------------------|--|
| Description | Sofosbuvir impurity G is both a diastereomer of Sofosbuvir and an impurity of Sofosbuvir which is an inhibitor of HCV RNA replication. |
| Targets(IC ₅₀) | HCV Protease |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 50 mg/mL (94.44 mM), Sonication is recommended. (< 1 mg/mL refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.8888 mL | 9.4438 mL | 18.8875 mL |
| 5 mM | 0.3778 mL | 1.8888 mL | 3.7775 mL |
| 10 mM | 0.1889 mL | 0.9444 mL | 1.8888 mL |
| 50 mM | 0.0378 mL | 0.1889 mL | 0.3778 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Baker MM, Hammad SF, Belal TS. Development and validation of a versatile HPLC-DAD method for simultaneous determination of the antiviral drugs daclatasvir, ledipasvir, sofosbuvir and ribavirin in presence of seven potential impurities. Application to assay of dosage forms and dissolution studies. Drug Dev Ind Pharm. 2019 Jul;45(7): 1111-1119.

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