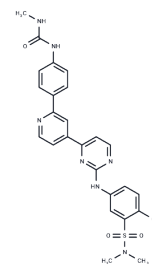


hSMG-1 inhibitor 11e

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1402452-10-1 |
| Formula: | C ₂₆ H ₂₇ N ₇ O ₃ S |
| Molecular Weight: | 517.6 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|----------------------------|--|
| Description | hSMG-1 inhibitor 11e is an effective and selective inhibitor of hSMG-1 (IC ₅₀ <0.05 nM) and can be used in studies about cancer treatment. |
| Targets(IC ₅₀) | Others,CDK,mTOR,PI3K |
| In vitro | hSMG-1 inhibitor 11e exhibits an IC ₅₀ of 900-fold selectivity over mTOR (IC ₅₀ = 45 nM), PI3K α/γ (IC ₅₀ = 61 nM), PI3K γ (IC ₅₀ = 92 nM), CDK1(IC ₅₀ = 32 μ M) and CDK2 (IC ₅₀ = 7.1 μ M)[1]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 45 mg/mL (86.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (9.66 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 1.932 mL | 9.660 mL | 19.3199 mL |
| 5 mM | 0.3864 mL | 1.932 mL | 3.864 mL |
| 10 mM | 0.1932 mL | 0.966 mL | 1.932 mL |
| 50 mM | 0.0386 mL | 0.1932 mL | 0.3864 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ariamala Gopalsamy, et al. Identification of pyrimidine derivatives as hSMG-1 inhibitors. Bioorg Med Chem Lett. 2012 Nov 1;22(21):6636-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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