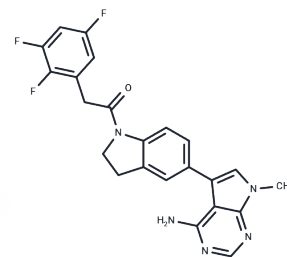


PERK-IN-2

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1337531-83-5 |
| Formula: | C ₂₃ H ₁₈ F ₃ N ₅ O |
| Molecular Weight: | 437.42 |
| 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 | PERK-IN-2 is a potent inhibitor of PERK with an IC ₅₀ of 0.2 nM. |
| Targets(IC ₅₀) | ERK,PERK |
| In vitro | PERK-IN-2 inhibits PERK autophosphorylation(IC ₅₀ ranging from 0.03-0.1 μM ,in A459 cells)[1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2861 mL | 11.4307 mL | 22.8613 mL |
| 5 mM | 0.4572 mL | 2.2861 mL | 4.5723 mL |
| 10 mM | 0.2286 mL | 1.1431 mL | 2.2861 mL |
| 50 mM | 0.0457 mL | 0.2286 mL | 0.4572 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

Axten JM , et al. Discovery of 7-methyl-5-(1-((3-(trifluoromethyl)phenyl)acetyl)-2,3-dihydro-1H-indol-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (GSK2606414), a potent and selective first-in-class inhibitor of protein kinase R (PKR)-like endoplasmic reticulum kinase (PERK). J Med Chem. 2012 Aug 23;55(16):7193-207.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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