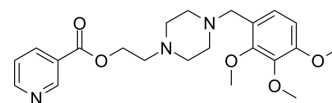


Ninerafaxstat

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-139577 | | |
| CAS No.: | 2254741-41-6 | | |
| Molecular Formula: | C ₂₂ H ₂₉ N ₃ O ₅ | | |
| Molecular Weight: | 415.48 | | |
| Target: | Mitochondrial Metabolism | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Pure form | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | |
|---|---|--------------------------|------------|------------|
| In Vitro | DMSO : 100 mg/mL (240.69 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | | | 10 mg | |
| Preparing Stock Solutions | 1 mM | 2.4069 mL | 12.0343 mL | 24.0685 mL |
| | 5 mM | 0.4814 mL | 2.4069 mL | 4.8137 mL |
| | 10 mM | 0.2407 mL | 1.2034 mL | 2.4069 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.02 mM); Clear solution; Need ultrasonic | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.02 mM); Clear solution; Need ultrasonic | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.02 mM); Clear solution; Need ultrasonic | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|---|
| Description | Ninerafaxstat (IMB-1018972) is a novel mitotropic agent. Ninerafaxstat increases myocardial metabolic efficiency by shifting substrate utilization towards glucose through reducing fatty acid oxidation (inhibiting 3-ketoacyl CoA thiolase). Ninerafaxstat can be used for the research of cardiovascular diseases ^[1] . |
|-------------|---|

REFERENCES

[1]. Larry Tremaine, et al. Abstract 10372: A Clinical Drug-Drug Interaction Study of Imb-1018972, a Novel Investigational Cardiac Mitotrope in Phase 2 Development for the Treatment of Myocardial Ischemia and Hypertrophic Cardiomyopathy. METABOLISM AND PHYSIOLOGY. 8 Nov 2021.

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

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