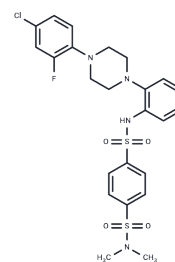


AKOS037652256

Chemical Properties

CAS No. : 2171065-77-1
Formula: C₂₄H₂₆ClFN₄O₄S₂
Molecular Weight: 553.07
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	AKOS037652256 can be used as a TRPML modulator for the treatment of diseases associated with TRPML activity such as lysosomal accumulation disorders, muscular dystrophy, common age-related neurodegenerative diseases, oxidative stress or reactive oxygen species (ROS)-related diseases and ageing.
In vitro	AKOS037652256 (Compound 8) (0.1-3 µM) was sufficient to induce TFEB-nuclear translocation (nuclear to cytosol ratio increased in a dose-dependent manner.[2])

Solubility Information

Solubility	DMSO: 5.53 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8081 mL	9.0404 mL	18.0809 mL
5 mM	0.3616 mL	1.8081 mL	3.6162 mL
10 mM	0.1808 mL	0.904 mL	1.8081 mL
50 mM	0.0362 mL	0.1808 mL	0.3616 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

Fortanet, et al. Heterocyclic compounds as TRPML modulators and their preparation. WO2021127337.
Liang, et al. Preparation of piperazine derivatives as TRPML modulators for the treatment of diseases.

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