

Progerinin

Chemical Properties

CAS No. : 2249696-72-6

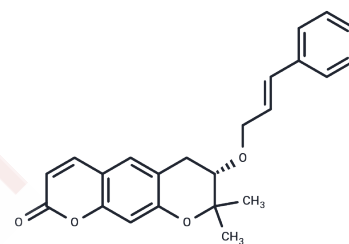
Formula: C₂₃H₂₂O₄

Molecular Weight: 362.42

Store at low temperature

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	Progerinin (SLC-D011) is an orally active progerin-lamin A binding inhibitor that alleviates nuclear deformation and growth arrest, suitable for studying Hutchinson-Gilford progeria syndrome (HGPS).
Targets(IC50)	Others
In vitro	In HGPS patient-derived fibroblasts (e.g., AG11498), Progerinin (100 nM, 3 days) significantly reduced progerin expression and induced the expression of H3K9me3 and cell cycle protein Cyclin B1 [1]. In various HGPS cells (e.g., AG11513, AG11498), Progerinin (2 μM, 7 days) decreased progerin and p16/INK4A expression while increasing H3K9me3 levels [1].
In vivo	In LmnaG609G/G609G mice, intraperitoneal injection of Progerinin (20 mg/kg, twice weekly) increased body weight and extended lifespan to 21 weeks; oral administration (50 mg/kg, once daily) also increased body weight and prolonged lifespan [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7592 mL	13.7961 mL	27.5923 mL
5 mM	0.5518 mL	2.7592 mL	5.5185 mL
10 mM	0.2759 mL	1.3796 mL	2.7592 mL
50 mM	0.0552 mL	0.2759 mL	0.5518 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

Kang SM, et al. Progerinin, an optimized progerin-lamin A binding inhibitor, ameliorates premature senescence phenotypes of Hutchinson-Gilford progeria syndrome. Commun Biol. 2021 Jan 4;4(1):5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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