

## SAG 21k

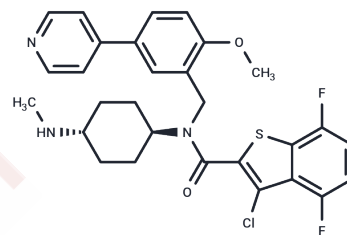
## Chemical Properties

CAS No. : 946002-48-8

Formula: C<sub>29</sub>H<sub>28</sub>ClF<sub>2</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight: 556.07

Storage: Store at low temperature, Keep away from direct sunlight  
 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	SAG 21k is an orally bioactive and potent Hedgehog signaling activator that crosses the blood-brain barrier for the study of cartilage regeneration.
Targets(IC50)	Hedgehog/Smoothened

## Solubility Information

Solubility	DMSO: 12.5 mg/mL (22.48 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: 2 mg/mL (3.6 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	1.7983 mL	8.9917 mL	17.9833 mL
5 mM	0.3597 mL	1.7983 mL	3.5967 mL
10 mM	0.1798 mL	0.8992 mL	1.7983 mL
50 mM	0.036 mL	0.1798 mL	0.3597 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

Christopher Loose, et al. Methods for hair follicle stem cell proliferation. WO2018191350A1.

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