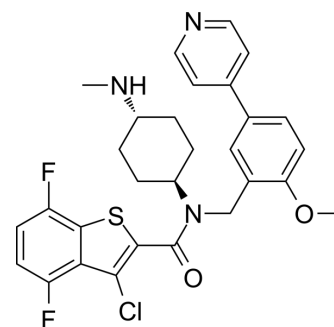


## Hedgehog agonist 1

<b>Cat. No.:</b>	HY-111040		
<b>CAS No.:</b>	946002-48-8		
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>28</sub> ClF <sub>2</sub> N <sub>3</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	556.07		
<b>Target:</b>	Hedgehog		
<b>Pathway:</b>	Stem Cell/Wnt		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 40 mg/mL (71.93 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.50 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.50 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Hh agonist 1 (compound 21k) is a potent Hedgehog (Hh) agonist, with an EC <sub>50</sub> 0.3 nM. Hh agonist 1 can be used for the research of stroke and other neurological disorders <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	EC <sub>50</sub> : 0.3 nM (Hh) <sup>[1]</sup> .

### REFERENCES

[1]. Brunton SA, et al. Potent agonists of the Hedgehog signaling pathway. *Bioorg Med Chem Lett*. 2009 Aug 1;19(15):4308-11.

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

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