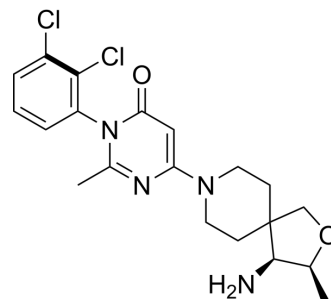


## IACS-15414

<b>Cat. No.:</b>	HY-132901	
<b>CAS No.:</b>	2411321-29-2	
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>24</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	423.34	
<b>Target:</b>	Phosphatase; SHP2	
<b>Pathway:</b>	Metabolic Enzyme/Protease; Protein Tyrosine Kinase/RTK	
<b>Storage:</b>	Powder	-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 (236.22 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3622 mL	11.8108 mL	23.6217 mL
5 mM	0.4724 mL	2.3622 mL	4.7243 mL
10 mM	0.2362 mL	1.1811 mL	2.3622 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.5 mg/mL (5.91 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (5.91 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

IACS-15414 is a potent and orally bioavailable SHP2 inhibitor with an IC<sub>50</sub> value of 122 nM.

### REFERENCES

- [1]. Czako B, et al. Discovery of 6-[(3S,4S)-4-amino-3-methyl-2-oxa-8-azaspiro[4.5]decan-8-yl]-3-(2,3-dichlorophenyl)-2-methyl-3,4-dihydropyrimidin-4-one (IACS-15414), a Potent and Orally Bioavailable SHP2 Inhibitor. *J Med Chem.* 2021 Oct 28;64(20):15141-15169.

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

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