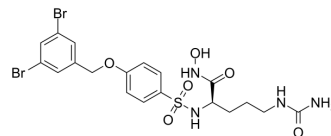


## JG26

Cat. No.:	HY-120852
CAS No.:	1464910-32-4
Molecular Formula:	C <sub>19</sub> H <sub>22</sub> Br <sub>2</sub> N <sub>4</sub> O <sub>6</sub> S
Molecular Weight:	594.27
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (168.27 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.6827 mL	8.4137 mL	16.8274 mL
				5 mM	0.3365 mL	1.6827 mL	3.3655 mL
				10 mM	0.1683 mL	0.8414 mL	1.6827 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.21 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.21 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.21 mM); Clear solution						

## BIOLOGICAL ACTIVITY

Description	JG26 is an ADAM17 inhibitor, with IC <sub>50</sub> values of 12 nM, 1.9 nM, 150 nM and 9.4 nM for ADAM8, ADAM17, ADAM10 and MMP-12, respectively <sup>[1]</sup> .			
IC <sub>50</sub> & Target	ADAM17 1.9 nM (IC <sub>50</sub> )	MMP-12 9.4 nM (IC <sub>50</sub> )	ADAM8 12 nM (IC <sub>50</sub> )	ADAM10 150 nM (IC <sub>50</sub> )
	MMP-8 240 nM (IC <sub>50</sub> )	MMP-9 1630 nM (IC <sub>50</sub> )	MMP14 19500 nM (IC <sub>50</sub> )	MMP-9 >500000 nM (IC <sub>50</sub> )

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## REFERENCES

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[1]. Doretta Cuffaro, et al. Discovery of Dimeric Arylsulfonamides as Potent ADAM8 Inhibitors. ACS Med Chem Lett. 2021 Oct 8;12(11):1787-1793.

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

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