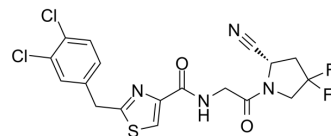


## BR102910

<b>Cat. No.:</b>	HY-W404002
<b>CAS No.:</b>	2505339-54-6
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>14</sub> Cl <sub>2</sub> F <sub>2</sub> N <sub>4</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	459.3
<b>Target:</b>	Prolyl Endopeptidase (PREP)
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (217.72 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.1772 mL</td> <td>10.8861 mL</td> <td>21.7723 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4354 mL</td> <td>2.1772 mL</td> <td>4.3545 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2177 mL</td> <td>1.0886 mL</td> <td>2.1772 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.1772 mL	10.8861 mL	21.7723 mL	5 mM	0.4354 mL	2.1772 mL	4.3545 mL	10 mM	0.2177 mL	1.0886 mL	2.1772 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.44 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (5.44 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	BR102910 is a selective fibroblast activation protein (FAP) inhibitor with the IC <sub>50</sub> of 2 nM. BR102910 also inhibits prolyl oligopeptidase (PREP) with the IC <sub>50</sub> of 49.00 μM. BR102910 can be used for the research of type 2
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 2 nM (FAP), 49.0 μM (PREP), >100 μM (DPP-4) <sup>[1]</sup>
<b>In Vivo</b>	BR102910 (C57BL/6J mice, 0-30 mg/kg, Orally, once) shows significant FAP inhibition in a dose dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>Animal Model:</b>	C57BL/6J mice (n = 5 per group) <sup>[1]</sup>

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Dosage:	0, 10 and 30 mg/kg
Administration:	Orally, once
Result:	Showed significant FAP inhibition in a dose dependent manner.

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## REFERENCES

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[1]. Hui Jin Jung, et al. Identification of BR102910 as a selective fibroblast activation protein (FAP) inhibitor. Bioorg Med Chem Lett. 2021 Apr 1;37:127846.

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

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