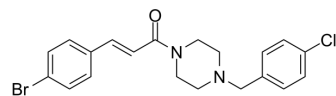


## ML401

Cat. No.:	HY-116814		
CAS No.:	1597489-14-9		
Molecular Formula:	C <sub>20</sub> H <sub>20</sub> BrClN <sub>2</sub> O		
Molecular Weight:	419.74		
Target:	EBI2/GPR183		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 10.42 mg/mL (24.82 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.3824 mL	11.9121 mL	23.8243 mL
		5 mM	0.4765 mL	2.3824 mL	4.7649 mL
	10 mM	0.2382 mL	1.1912 mL	2.3824 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: ≥ 1.04 mg/mL (2.48 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.04 mg/mL (2.48 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	ML401, a potent chemical probe, selectively antagonizes EBI2 (also known as GPR183) with an IC <sub>50</sub> of 1.03 nM. ML401 displays activity in a chemotaxis assay (IC <sub>50</sub> =6.24 nM). ML401 shows good stability and no toxicity <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 1.03 nM (EBI2) <sup>[1]</sup>
In Vitro	ML401 shows no toxicity (>50 μM) towards immortalized Fa2-N4 human hepatocytes and non-cytotoxic in MTT in both LnCap and IMR-32 cells (>50 μM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	ML401 shows very good stability in both human plasma and mouse plasma <sup>[1]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Ardecky R, et al. Functional Antagonists of EBI-2. Probe Reports from the NIH Molecular Libraries Program [Internet].

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

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