## I-287

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MedChemExpress

Cat. No.:	HY-148016	
CAS No.:	2014368-93-3	о — он
Molecular Formula:	C <sub>30</sub> H <sub>30</sub> ClFN <sub>4</sub> O <sub>4</sub>	
Molecular Weight:	565.04	$\sim$
Target:	Protease Activated Receptor (PAR); ERK	
Pathway:	GPCR/G Protein; MAPK/ERK Pathway; Stem Cell/Wnt	F N O
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	CI

I-287 is a orally active selective PAR2 inhibitor that acting as a negative allosteric regulator on Gα <sub>q</sub> and Gα <sub>12/13</sub> activity and their downstream effectors. I-287 reduces Complete Freund's adjuvant (HY-153808)-induced inflammation in mice and can be used for inflammation/immunology research <sup>[1]</sup> .		
ERK1	ERK2	
I-287 (0-60 μM; 15-30 min) inhibits PAR2-mediated activation of Gαq and Gα <sub>12/13</sub> but not G <sub>i/o</sub> proteins while has no effect on PAR2-mediated recruitment of βarrestin2 and receptor internalization <sup>[1]</sup> .         I-287 (0-60 μM; 15-30 min) inhibits PAR2-mediated ERK1/2 activation in HEK293 cells <sup>[1]</sup> .         I-287 (10 μM; 30 min) inhibits PAR2-mediated ERK1/2 activation in HEK293 cells <sup>[1]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Western Blot Analysis <sup>[1]</sup> Cell Line:       HEK-293 cells         Concentration:       0-60 μM         Incubation Time:       15 min         Result:       Inhibited PAR2-mediated ERK1/2 activation in HEK293 cells.		
I-287 (50 mg/kg for p.o.) redu MCE has not independently of Animal Model: Dosage: Administration: Result:	287 (50 mg/kg for p.o.) reduces Complete Freund's adjuvant (HY-153808)-induced inflammation in C57BL/6J mice <sup>[1]</sup> .         1CE has not independently confirmed the accuracy of these methods. They are for reference only.         nimal Model:       CFA-induced paw inflammation in adult male C57BL/6J mice <sup>[1]</sup> Dosage:       50 mg/kg         administration:       Oral gavage (p.o.) following the CFA         Reduces CFA-induced inflammation in C57BL/6J mice	
	I-287 is a orally active selection         their downstream effectors.         be used for inflammation/im         ERK1         I-287 (0-60 μM; 15-30 min) in         PAR2-mediated recruitment         I-287 (0-60 μM; 15-30 min) in         PAR2-mediated recruitment         I-287 (10 μM; 30 min) inhibits         MCE has not independently         Western Blot Analysis <sup>[1]</sup> Cell Line:         Concentration:         Incubation Time:         Result:         I-287 (50 mg/kg for p.o.) reduce         MCE has not independently         Animal Model:         Dosage:         Administration:         Result:	

## REFERENCES

[1]. Avet C, et.al. The PAR2 inhibitor I-287 selectively targets Gaq and Ga12/13 signaling and has anti-inflammatory effects. Commun Biol. 2020 Nov 27;3(1):719.

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

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