

Supplementary materials

Figure S1. Examined IL-37 and α -SMA expression in PDAC samples by IHC and performed the Masson stain (n=85).

And the statistical data showed that IL-37 was not associated with α -SMA expression and stromal fibrosis ($P > 0.05$).

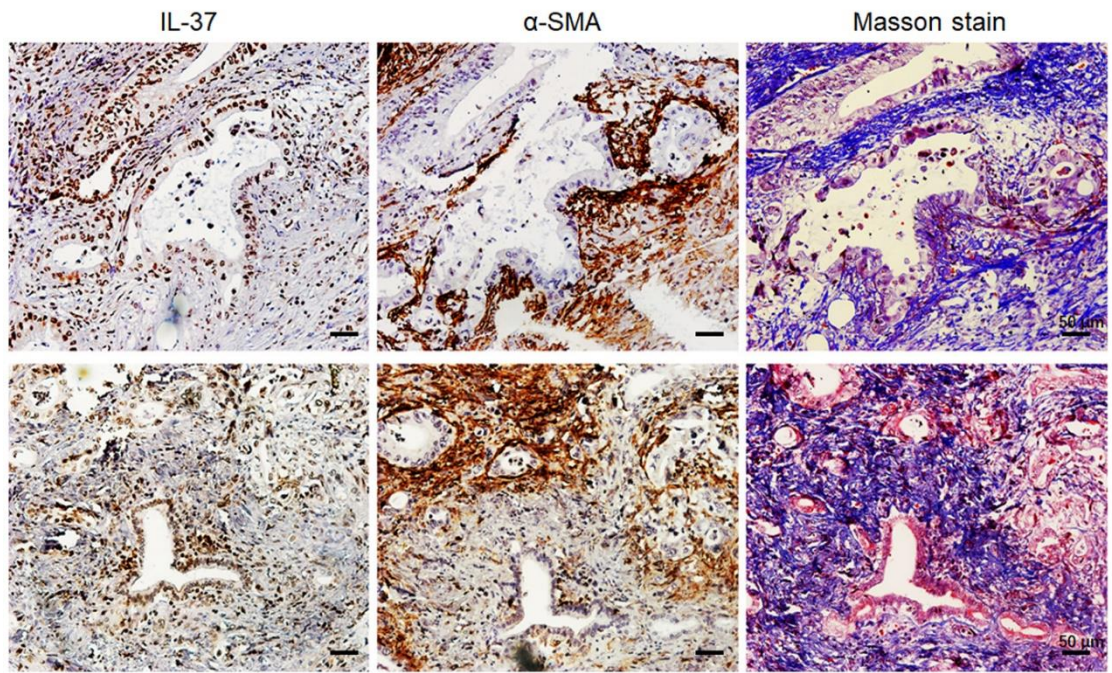
Figure S2. Measurement the effect of rIL-37 on proliferation of the PDAC cell lines by real-time cell analysis (RTCA) system.

The data showed that rhIL-37 (100 ng/ml) did not decreased proliferation of the PDAC cell lines (SW1990, PANC-1 and MIA-PaCa2) at 24 h and 36 h ($P > 0.05$). But rhIL-37 can decrease proliferation of the PDAC cell lines at 48 h and more than 48 h ($P < 0.01$). ** $P < 0.01$ and *** $P < 0.01$.

Figure S3. Examination the level of p-STAT3 (705) and HIF-1 α in PDAC samples by IHC (n=85).

The statistical data showed that there was a positive relationship between HIF-1 α and p-STAT3 (705) expression ($P = 0.023$).

Figure S1



IL-37

		-/++	+/+++	<i>r</i>	<i>P</i>
α-SMA	-/+	35	8	0.035	0.748
	+/+++	33	9		

IL-37

		-/++	+/+++	<i>r</i>	<i>P</i>
Masson	-/+	60	12	0.196	0.072
	+/+++	8	5		

Figure S2

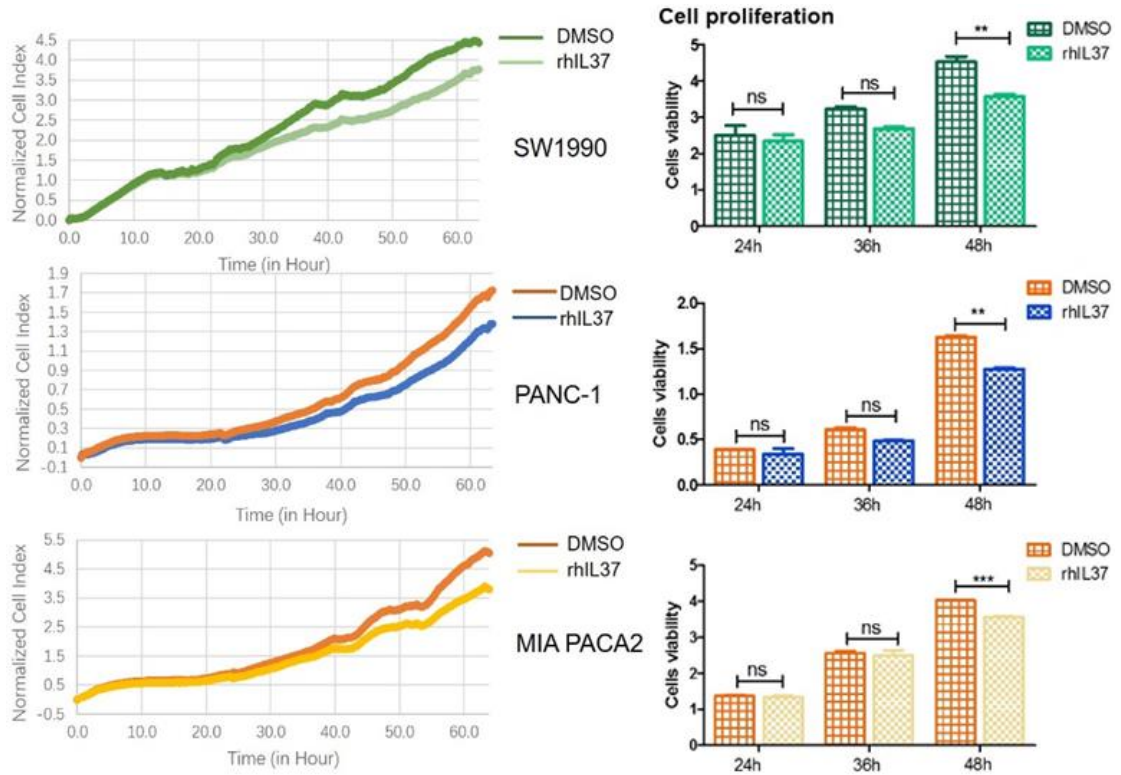
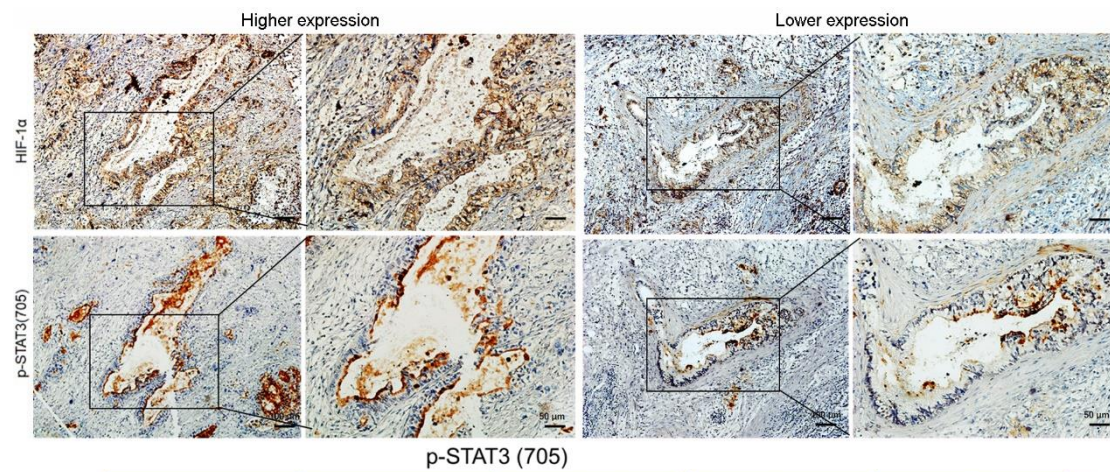


Figure S3



		p-STAT3 (705)		<i>r</i>	<i>P</i>
		-/+	+/+		
HIF-1α	-/+	46	12	0.246	0.023
	+/+	15	12		

Table S1 Antibodies and primers

Antibodies				
Name	Manufacturer	Number	Type	Usage
IL-37	Abcam	ab153889	Monoclonal	IHC
IL-37	Abcam	ab 57187	Monoclonal	WB, IF
SIGIRR	Abcam	ab 25875	Polyclonal	WB,IHC
IL18R1	Abcam	ab117432	Polyclonal	WB,IHC
HIF-1 α	Abcam	ab113642	Monoclonal	WB,IHC
Stat3	Cell Signaling Technology	D3Z2G	Monoclonal	WB
Phospho-Stat3 (Tyr705)	Cell Signaling Technology	D3A7	Monoclonal	WB
Phospho-Stat3 (Ser727)	Cell Signaling Technology	D8C2Z	Monoclonal	WB
β -actin	Cell Signaling Technology	8H10D10	Monoclonal	WB
DAPI	Beyotime Biotechnology	C1002		IF
siRNAs		sequences (5'-3')		
IL37 #1	UCCUGGAACAUGCUGGAGUTT/ ACUCCAGCAUGUCCAGGATT			
IL37 #2	UGGGGUGAVAGAUAAAUUUTT/ AAUUUAUCUGUCACCCCATT			
SIGIRR #1	GCAGCUCAGUGGCUCUGAATT/ UUCAGAGCCACUGAGCUGCTT			
SIGIRR #2	GCCGCCUGCUCUAUGUCATT/ UGACAUAGAGCAGGGCGGCTT			
IL18R1 #1	CCAGGCCACGUCUUCACAATT/ UUGUGAAGACGUGGCCUGGTT			
IL18R1 #2	CCUGUUCUUUCCGAGUCUUTT/ AAGACUCGGAAAGAACAGGTT			
HIF-1 α #1	GCCGAGGAAGAACUAUGAATT/ UUCAUAGUUCUCCUCGGCTT			
HIF-1 α #2	GCCGCUCAUUUAUGAAUATT/ UAUUCAUAAAUUGAGCGGCTT			
Positive control	UGACCUCAACUACAUGGUUTT/AACCAUGUAGUUGAGGUCATT			
Negative control	UUCUCCGAACGUGUCACGUTT/ACGUGACACGUUCGGAGAATT			
Primer sequences (5'-3')				
IL37	F:CCTGGACTCTGGGAATCTCA R: AGAGGCTGAGCTCAAGGATG			
HIF-1 α	F:GGTGCTGATTTGTGAACCCA R: TATCCAGGCTGTGTCTGACTG			
GAPDH	F:GGAGCGAGATCCCTCCAAAATR:GGCTGTTGTCATACTTCTCATGG			

IL-37-1-P*	F: TGTTGAAAGCTCTCGGTCAA	R: TGCTCTGCAACCTCTTTTCA
IL-37-2-P*	F: TTCAGGGATACTGCCAAACC	R: AGGGCTTCAGGACTCAACAA
IL-37-3/4-P*	F: CCACGTGAAGCACATCTGAA	R: CCAGCAATGCCCTACTTGTT

WB: Western blotting; IHC: Immunohistochemistry; IF: Immunofluorescence; siRNA: Small interfering RNA; P*: Promoter