•	RN9305-0382				
•	PPAR				
•	Study on the Molecular Mechanisms of Anti-Carcinogenic and Anti-inflammatory Effects of Peroxisome Proliferator-Activated Receptor (PPAR) Ligands				
•	•		NSC90-2320-B038-050		
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•	9008 ~ 9107				
•	16				
•	; Liang, Yu-Chih; Lin, Jen-Kun				
•	; ; JNK				
•	Prostaglandin; Apoptosis; JNK gene				
	Peroxisome proliferator-activated receptor(PPAR) Eicosanoids Prostaglandin J2(PGJ2)				
	15-deoxy-12,14-PGJ2 (15d-PGJ2) PGA1	AG			PPARα
•	PPARγ 15d-PGJ2 PGA1 15d-PGJ2 PGA1		15d-PGJ2 PGA1 pase-3	Dominant-	PPAR negative c-Jun
	N-terminal kinase(DN-JNK) JNK Caspase-3 JNK JNK		•	15d-PGJ2	PGA1
•	Cyclopentenone prostaglandins (CyPGs) derivatives of arachic through peroxisome proliferator-activated receptor (PPAR)-de eicosanoids on the inhibition of cell proliferation, and found the G12,14-PGJ2 (15d-PGJ2), and PGA1 markedly inhibited growsignificant increase in DNA-fragmentation in the cells with own 15d-PGJ2 and PGA1 induced apoptosis through PPAR-independent	ependent and -in hat the terminal wth and induced verexpression of	dependent mechanisms. Here derivative of PGJ2 metabolism apoptosis in AGS gastric care PPAR \ \ or PPAR \ ^ plasm	we examined m, 15-deoxy- cinoma cells. T nid, indicating	that various  There were no that

N-terminal kinase (JNK), and the caspase-3 activity in dose- and time-dependent manners. To further examine the role of JNK signaling cascades in apoptosis induced by 15d-PGJ2 and PGA1, we transfected dominant-negative (DN) mutants of JNK into the cells to analyze the apoptotic characteristics of cells expressing DN-JNK plasmid following exposure to 15d-PGJ2 and PGA1. Expression of DN-JNK proteins repressed both of endogenous JNK and caspase-3 activity, and subsequently inhibited apoptosis induced by 15d-PGJ2 and PGA1. These results suggest that CyPGs, such as 15d-PGJ2 and PGA1, activates the JNK signaling pathway, and that JNK activation may be involved in 15d-PGJ2 and PGA1 induced cell death.