

Supplementary Material

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Table S1. Animal toxicity behavior observation scale

Observation Time	Toxicity Behavior	Animal Proportion		
		PPT	CON	Chi-Square Test
6h	Losses weight	4/20	0/20	-
	Marked piloerection	4/20	0/20	-
	Hypokinesia	5/20	0/20	$P = 0.047$
	Unclean anus	0/20	0/20	-
	Diarrhoea	0/20	0/20	-
	Ecchymosis on Front limbs	9/20	0/20	$P = 0.000$
	Epistaxis	7/20	0/20	$P = 0.003$
	Erythema on the dorsal surface	0/20	0/20	-
	Hunched posture	2/20	0/20	-
	Death	0/20	0/20	-
12h	Losses weight	12/20	0/20	$P = 0.000$
	Marked piloerection	6/20	0/20	$P = 0.008$
	Hypokinesia	9/20	0/20	$P = 0.000$
	Unclean anus	6/20	0/20	$P = 0.008$
	Diarrhoea	1/20	0/20	-
	Ecchymosis on Front limbs	9/20	0/20	$P = 0.000$
	Epistaxis	10/20	0/20	$P = 0.000$
	Erythema on the dorsal surface	0/20	0/20	-
	Hunched posture	7/20	0/20	$P = 0.003$
	Death	0/20	0/20	-
24h	Losses weight	2/20	0/20	-
	Marked piloerection	7/20	0/20	$P = 0.003$
	Hypokinesia	10/20	0/20	$P = 0.000$
	Unclean anus	6/20	0/20	$P = 0.008$
	Diarrhoea	1/20	0/20	-
	Ecchymosis on Front limbs	3/20	0/20	-
	Epistaxis	10/20	0/20	$P = 0.000$
	Erythema on the dorsal surface	0/20	0/20	-
	Hunched posture	7/20	0/20	$P = 0.003$
	Death	0/20	0/20	-

Table S2. MRM and standard curve information of 15 arachidonic acid pathway metabolites

Metabolite Name	QC RSD	Mass Info	Retention Time (min)	Linear	R	Linear range (ng/ml)	LOD (ng/ml)	LOQ (ng/ml)	ULOQ (ng/ml)
Arachidonic acid	0.008	303.2 / 259.2	7.442	$y = 0.01489 x + 0.13985$	$r = 0.99944$	0.25-1000	0.05	0.25	1000
Docosahexaenoic acid	0.038	327.1 / 229.2	7.287	$y = 0.00419 x + 0.05541$	$r = 0.99925$	0.25-1000	0.05	0.25	1000
12(S)-HETE	0.017	319.1 / 179.0	5.547	$y = 0.01233 x - 0.06198$	$r = 0.99996$	0.25-1000	0.05	0.25	1000
15(S)-HETE	0.037	319.1 / 219.0	5.299	$y = 0.00253 x - 0.00917$	$r = 0.99991$	0.25-1000	0.05	0.25	1000
14(15)-EpETE	0.012	317.1 / 207.0	5.882	$y = 0.00308 x - 0.01138$	$r = 0.99785$	0.25-1000	0.05	0.25	1000
9(S)-HODE	0.026	295.1 / 171.1	5.193	$y = 0.00685 x - 0.07859$	$r = 0.99984$	0.25-1000	0.05	0.25	1000
13(S)-HODE	0.038	295.0 / 195.0	5.151	$y = 0.01037 x + 0.16279$	$r = 0.99931$	0.25-1000	0.05	0.25	1000
Leukotriene B4	0.014	335.2 / 195.0	3.871	$y = 0.01051 x - 0.02960$	$r = 0.99987$	0.25-1000	0.05	0.25	1000
Leukotriene D4		495.3 / 177.2		$y = 0.00911 x - 0.10834$	$r = 0.99958$	0.25-1000	0.05	0.25	1000
6-keto-Prostaglandin F1 α	0.010	369.3 / 163.0	0.884	$y = 0.01741 x - 0.11266$	$r = 0.99972$	0.25-1000	0.05	0.25	1000
8-iso-Prostaglandin F2 α	0.008	353.1 / 309.3	2.092	$y = 0.02847 x + 0.01161$	$r = 0.99968$	0.25-1000	0.05	0.25	1000
Prostaglandin D2	0.014	351.2 / 271.3	2.273	$y = 0.03877 x - 0.35361$	$r = 0.99885$	0.25-1000	0.05	0.25	1000
Prostaglandin E2	0.005	351.2 / 271.3	2.258	$y = 0.04250 x - 0.79358$	$r = 0.99944$	0.25-1000	0.05	0.25	1000
Prostaglandin F2 α	0.008	353.1 / 309.3	2.091	$y = 0.03219 x + 0.01030$	$r = 0.99975$	0.25-1000	0.05	0.25	1000
Thromboxane B2	0.017	369.2 / 169.0	1.759	$y = 0.00935 x - 0.03738$	$r = 0.99984$	0.25-1000	0.05	0.25	1000

Table S3. Heart weight scale of rats in each group

Sample	heart weight (g)	
	PPT	CON
1	1.127	1.17
2	1.031	1.07
3	0.915	1.047
4	0.852	1.009
5	0.839	0.951
6	0.917	1.077
7	1.029	0.953
8	0.858	1.208
9	0.927	0.987
10	0.956	1.032
11	0.908	1.029
12	1.092	1.038
13	1.098	0.942
14	0.996	0.916
15	0.906	1.023
16	0.919	0.968
17	1.455	0.899
18	1.012	0.97
19	0.875	1.028
20	0.952	0.992

Table S4. The grading systems for pathological tissue changes[#]

	PPT		CON	
	Number	Level	Number	Level
blood vessel congestion	5/8	1	2/8	1
insoluble fibrin	4/8	1	0/8	0
the cytoplasm of myocardial cells in the left ventricular wall is loose, with visible vacuoles in the cytoplasm	6/8	1	1/8	0
connective tissue hyperplasia	5/8	1	0/8	0
inflammatory infiltration	4/8	1	0/8	0
Comprehensive pathologic grading of heart tissue	1		0	

[#]The grading was performed according to The International Harmonization of Nomenclature and Diagnostic Criteria for Lesions in Rats and Mice (INHAND) (www.goReni.org). Level 0 indicates that under research conditions, considering factors such as the animal's age, gender, and strain, the tissue is considered normal. However, changes observed under other conditions may be deemed abnormal. Level 1 indicates that pathological changes just exceed the normal range. Level 2 indicates that pathological changes can be observed, but are not yet severe. Level 3 indicates that the pathological changes are evident and likely to worsen. Level 4 indicates that the pathological changes are very severe, with the lesion occupying the entire tissue or organ.