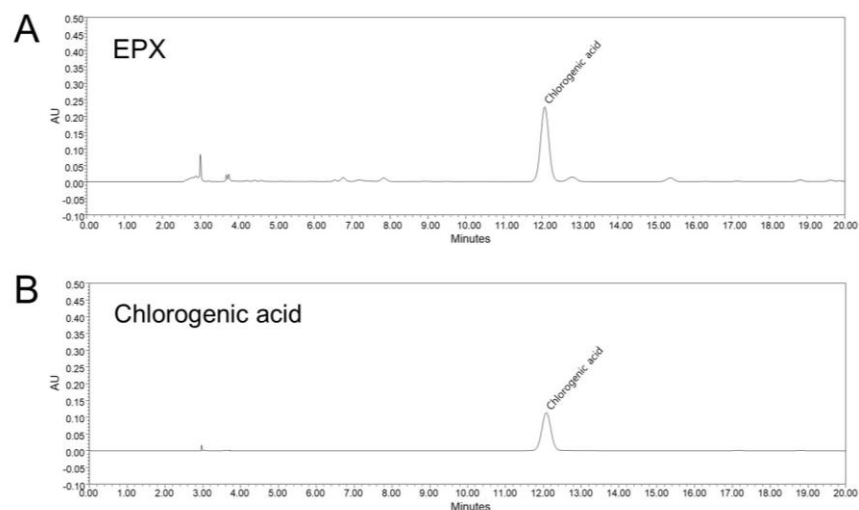
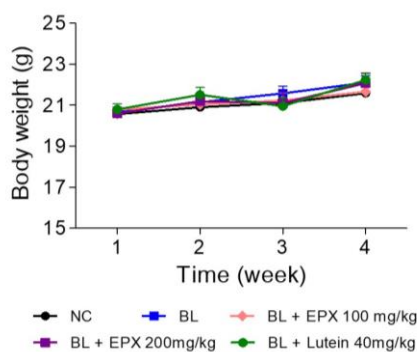


Supplementary Information



Supplementary Figure S1. HPLC chromatogram of chlorogenic acid from EPX. Chromatograms of (A) EPX and (B) chlorogenic acid as standard compound. Absorbance was measured at 310 nm wavelength.



Supplementary Figure S2. Changes in the body weight of mice in animal model.

Supplementary Table S1. Primer sequences for RT-qPCR

Name	Forward	Reverse
<i>ATF3</i>	GCTGTCACCACGTGCAGTATCTCA	CTGTTCTCCTCTTGCTGACAAGC
<i>XBPIs</i>	TGCTGAGTCCGCAGCAGGTG	GCTGGCAGGCTCTGGGGAAG
<i>HERPUD1</i>	CGTTGGGTGGTTTCCATTA	TGGTTGGGGTCTTCAGTTTC
<i>DDIT3</i>	CTAGTGCCAATGATGTGA	ATATACAAGCTGAGACCTT
<i>TRIB3</i>	GAGGAGGGGAGACAGAGAAG	TGGAAGGCACTGAAGGTT
<i>HSPA5</i>	AGCTGTAGCGTATGGTGCTG	AAGGGGACATACATCAAGCAGT
<i>CXCL8</i>	TGAATTACGGAATAATGAGTTAGAAC	TCAACCAGCAAGAAATTACTAAT
<i>IL1B</i>	CCACCTCCAGGGACAGGATA	AACACGCAGGACAGGTACAG
<i>RELA</i>	GTGGGGACTACGACCTGAATG	GGGGCACGATTGTCAAAGATG
<i>NFKBIA</i>	ACCTGGTGTCACTCCTGTTGA	CTGCTGCTGTATCCGGGTG
<i>18s</i>	GAGGATGAGGTGGAACGTGT	TCTTCAGTCGCTCCAGGTCT

Supplementary Table S2. Raw values of ONL thickness from BL-induced retinal degeneration model.[ONL thickness] (μm)**GROUP: G1 (n=8) NC**

Animal ID	G1-1		G1-2		G1-3		G1-4		G1-5		G1-6		G1-7		G1-8	
Left	49.50	48.11	40.30	39.36	52.94	53.54	45.41	45.94	58.23	56.23	48.86	49.41	47.83	46.57	43.82	47.26
Right	43.73	44.71	37.05	38.65	51.28	51.88	43.74	44.84	54.06	45.65	47.08	49.32	46.17	46.24	43.51	47.87

GROUP: G2 (n=8) Blue light

Animal ID	G2-1		G2-2		G2-3		G2-4		G2-5		G2-6		G2-7		G2-8	
Left	16.87	16.06	18.60	20.23	23.51	21.36	21.54	20.30	12.15	12.13	16.72	15.87	15.23	16.19	15.87	17.09
Right	15.81	16.63	20.28	26.28	22.56	21.71	22.33	22.38	12.03	10.96	14.72	15.86	16.06	17.48	13.48	13.29

GROUP: G3 (n=8) Blue light+EPX 100mg/kg

Animal ID	G3-1		G3-2		G3-3		G3-4		G3-5		G3-6		G3-7		G3-8	
Left	20.15	19.56	33.55	27.93	28.47	28.24	23.90	23.62	21.64	20.09	23.72	25.20	25.56	26.43	21.42	21.53
Right	28.35	24.95	30.87	31.86	23.25	21.08	20.76	20.36	19.41	20.33	28.47	24.69	21.27	21.57	21.96	20.95

GROUP: G4 (n=8) Blue light+EPX 200mg/kg

Animal ID	G4-1		G4-2		G4-3		G4-4		G4-5		G4-6		G4-7		G4-8	
Left	23.70	21.21	22.30	20.08	24.36	26.58	28.60	30.28	26.90	25.29	29.60	29.82	26.03	23.85	24.78	25.62
Right	25.30	24.69	20.83	23.66	24.52	25.28	27.86	26.30	26.61	25.78	23.65	22.15	23.86	25.38	25.50	25.56

GROUP: G5 (n=8) Blue light+Lutein 40mg/kg

Animal ID	G5-1		G5-2		G5-3		G5-4		G5-5		G5-6		G5-7		G5-8	
Left	28.73	31.91	24.06	24.13	23.49	23.80	25.34	23.96	22.72	21.29	18.40	19.80	16.51	18.62	26.80	25.36
Right	32.51	35.30	23.98	24.92	23.08	24.34	24.85	25.54	23.88	22.53	22.58	20.82	21.75	23.62	25.09	23.89