

Supplementary Material

corresponding to:

Inhibition of COX2 impairs angiogenesis and causes vascular defects in developing zebrafish embryos

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Supplementary Data:

Table S1. Cyclooxygenase 2 activity levels. Values are expressed as Mean±SEM; n=3; N=50. ***p ≤ 0.001.

Group	Control	Treated
24 hpf	31.49 ± 1.20	19.89 ± 0.93***
48 hpf	44.92 ± 1.13	13.67 ± 1.22***
72 hpf	51.82 ± 1.14	17.17 ± 0.72***

Table S2. PGE2 concentration levels. Values are expressed as Mean±SEM; n=3; N=50. ***p ≤ 0.001.

Group	Control	Treated
24 hpf	31.49 ± 1.18	19.89 ± 1.35***
48 hpf	44.92 ± 0.88	13.67 ± 0.96***
72 hpf	51.82 ± 0.53	17.17 ± 1.17 ***

Table S3. Bradycardia in zebrafish embryos treated with Etoricoxib (beats per minute). Values are expressed as Mean±SEM; n=3; N=6. ***p ≤ 0.001.

Group	Control	Treated
48 hpf	205.47 ± 0.80	127.63 ± 0.90***
72 hpf	202.34 ± 0.43	115.14 ± 0.15***

Table S4. Comparative analysis of blood vessel area (%). Values are expressed as Mean±SEM; n=3; N=6. ***p ≤ 0.001.

Group	Control	Treated
24 hpf	15.66 ± 0.18	6.18 ± 0.73 ***
48 hpf	32.70 ± 0.28	14.77 ± 0.86 ***
72 hpf	51.75 ± 0.86	30.22 ± 0.82 ***

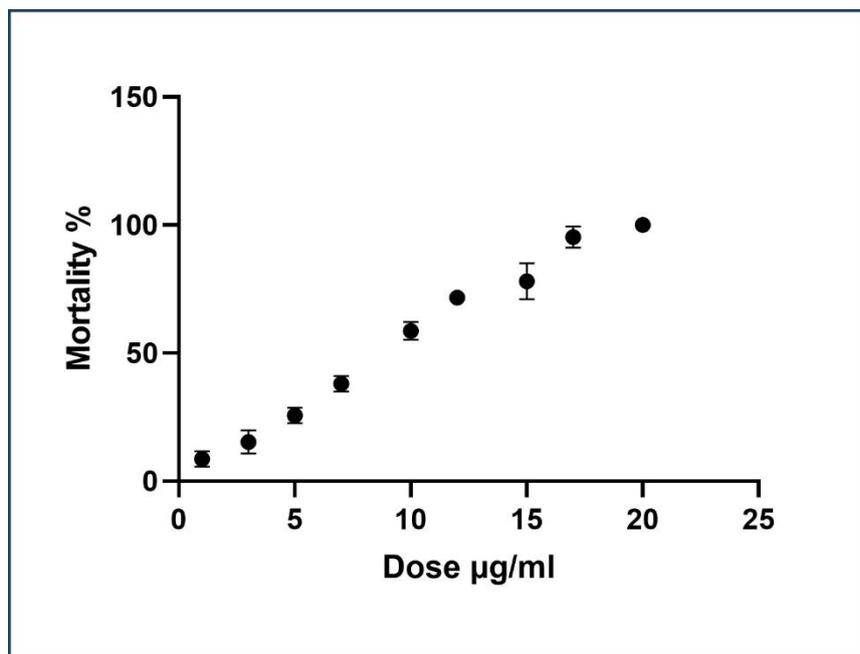
Table S5. Comparative analysis of blood vessel length (arbitrary units). Values are expressed as Mean±SEM; n=3; N=6. ***p ≤ 0.001.

Group	Control	Treated
24 hpf	148.6367	111.18***
48 hpf	181.0967	141.24***
72 hpf	222.28	179.15***

Table S6. Comparative analysis of mean lacunarity (arbitrary units). Values are expressed as Mean±SEM; n=3; N=6. ***p ≤ 0.001.

Group	Control	Treated
24 hpf	0.91 ± 0.64	2.54 ± 0.27***
48 hpf	1.45 ± 0.67	3.35 ± 0.38***
72 hpf	2.38 ± 0.56	4.39 ± 0.62***

Fig. S1. Dose response curve of Etoricoxib in zebrafish embryos.



Doses were 1, 3, 5, 7, 10, 12, 15, 17 and 20 µg/ml. N = 30 embryos per group.