



Supplementary Materials:

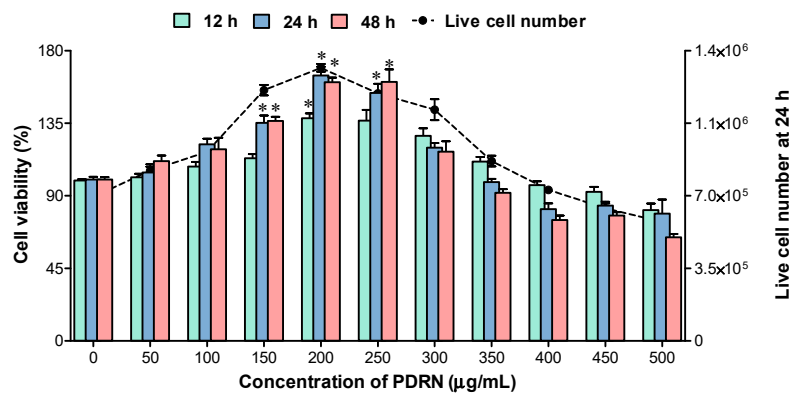


Figure S1: Effect of PDRN on cell viability and live cell number in HDFs. The results are presented as percent of cell viability in control (0 $\mu\text{g/mL}$ of PDRN) in each time point. The viability of untreated control cells was taken as 100%. Results are presented as means \pm SD ($n = 3$). * $P < 0.05$ compared to the control (0 mg/mL of PDRN) as tested by Student's t-test.

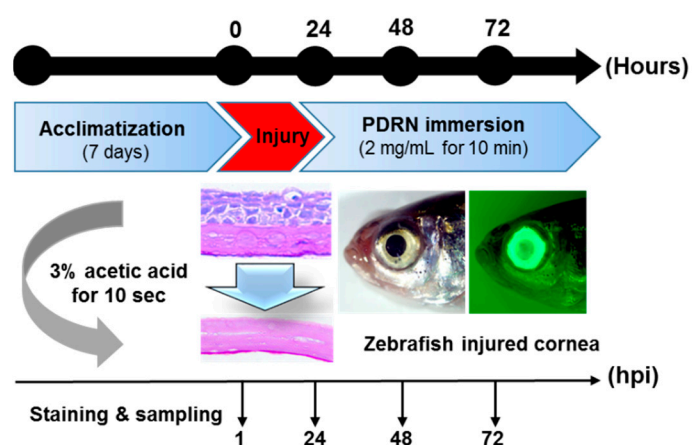


Figure S2: Overview of the experimental design of acetic acid induced corneal injury and PDRN treatment in zebrafish.

Table S1: Gene specific primers used in this study.

Gene	Accession number	Primer name	Forward primer
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Adenosine A2a receptor a (<i>adora2a.1</i>)	AY945800.1	adora2a.1-F	GCTCCACCCTACAGAAAGAAG
		adora2a.1-R	CAGGGCAGAACAGAGTGAAA
Adenosine A2a receptor b (<i>adora2ab</i>)	NM_001040036.1	adora2ab-F	GAGCTCCGTCTTCAGTTTGT
		adora2ab-R	GCAATGATTCTTTGGCTCTTC
Adenosine A1 receptor b (<i>adora1b</i>)	NM_001128584.1	adora1b-F	AGAAGTTTCGGACTGCCTTT
		adora1b-R	AGCGAAGTAGTGGTTGTTATCC
Adenosine A2b receptor (<i>adora2b</i>)	NM_001039813.2	adora2b-F	CCATCAACTCTACGCTCAAGAA
		adora2b-R	GACCACAGACCGATGCTTATAG
Tumor necrosis factor- α (<i>tnf-α</i>)	AY427649	tnf- α -F	AGAAGGAGAGTTGCCTTTACCGCT
		tnf- α -R	AACACCCTCCATACACCCGACTTT
Matrix metalloproteinase 9 (<i>mmp9</i>)	AY151254	mmp9-F	TTTGCCCTGATCGTGGATAC
		mmp9-R	GGGAAACCCTCCACGTATTT
Matrix metalloproteinase 13 (<i>mmp13</i>)	AF506756	mmp13-F	GAGAAGGTTTGGGCTCTCTATG
		mmp13-R	TGAGTTGCTGTCTTCCTTGTA
Transforming growth factor, β 1 (<i>tgfb1</i>)	XM_687246	tgfb1-F	CCCAAGGAACCAGAAGTAGAAG
		tgfb1-R	GGATCTTCTATGGTGTGCTGAA
Paired box 6a (<i>pax6a</i>)	NM_131304.1	pax6a-F	CCTCAAGTCACATACCCATCAG
		pax6a-R	GAGCCTGACGTAAAGGATACTG
Paired box 6b (<i>pax6b</i>)	NM_131641.1	pax6b-F	AAGTGGAGGAGAGAGGAGAAA
		pax6b-R	TGATAGACGCTGGTGTGAAG
Heat shock protein 70 (<i>hsp70</i>)	AB062116.1	hsp70-F	CATGGTCCTGCTGAAGATGAA
		hsp70-R	GTCTGTGGGACTCGTTGAAATA
Heat shock protein 90 (<i>hsp90ab.1</i>)	NM_131310.3	hsp90ab.1-F	GAAGAGGAGAAGGCAGAGAAAAG
		hsp90ab.1-R	CGAGCCGACATCTTCAATCT
Kruppel-like factor 4 (<i>klf4</i>)	NM_001113483	klf4-F	CCTCCACGGGAAATTTGTAGTC
		klf4-R	CCACTATACAGCCGACGTTT
Mucin 2.1 (<i>muc2.1</i>)	NC_007136.7	muc2.1-F	AATATGCCTTGCGGAACAAC
		muc2.1-R	GTGCTGAGGTTGCAGAATGA
Mucin 5.1 (<i>muc5.1</i>)	XM_009297795.1	muc5.1-F	TGGCAACTTGGCTGATGATA
		muc5.1-R	TCGTCACACGGACCACTAGTA
Mucin 5.2 (<i>mus5.2</i>)	XM_009297793.1	mus5.2-F	GGTGTCTGTTCCGATCAATC
		mus5.2-R	TCATCCTTGTGCGCCATTGTA

β -actin	AF025305	β -actin- F	AATCTTGCGGTATCCACGAGACCA
		β -actin- F	TCTCCTTCTGCATCCTGTCAGCAA
