

Table S1 Collagen biosynthesis measurements in fibroblasts irradiated with UVA and treated with AmO at concentrations of 0.05%, 0.1% and 0.15%. (1st - first measurement in sample. 2nd - second measurement in sample. Δ - difference between 1st and 2nd measurement in sample. *statistically significant differences at $p < 0.05$ compared to the control. **statistically significant difference at $p < 0.05$ compared to UVA. SD – standard deviation. SEM – standard error).

Sample	1st	2nd	Δ^1	1st	2nd	Δ^2	1st	2nd	Δ^3	Mean value ($\Delta^1 + \Delta^2 + \Delta^3$)/3	% per cent	SD	SEM
Control	2486	1503	983	1849	1682	167	1866	1863	3	384.33	100	524.90	399.11
0.05% AmO	1611	1387	224	1542	1321	221	2031	1379	652	365.66	95.14	247.97	190.88
0.1% AmO	2296	1752	544	2115	1753	362	2069	1892	177	361	93.93*	183.50	122.66
0.15%AmO	2286	1722	564	2015	1743	272	2079	1882	197	344.33	89.59	193.89	146.44
UVA	914	616	298	846	681	165	685	517	198	220.33	57.32*	69.25	51.777
0.05% AmO + UVA	1182	948	234	1156	1035	121	1400	862	538	297.66	77.45**	215.66	160.22
0.1% AmO + UVA	2286	1822	464	2115	1843	272	1979	1782	197	311	80.91**	137.70	102
0.15%AmO + UVA	2186	1922	264	2005	1543	462	2129	1882	247	324.33	84.38**	119.52	91.777

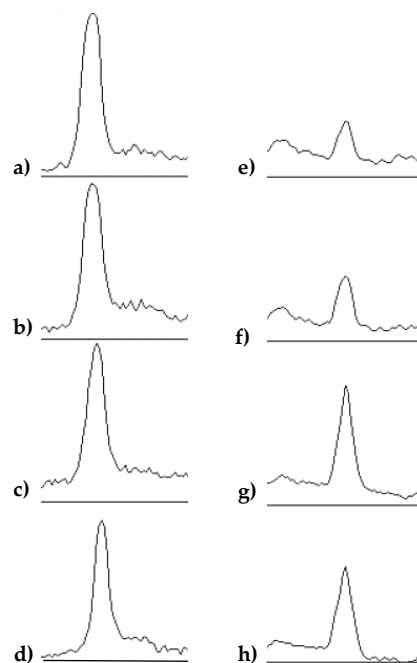
Table S2 Prolidase activity in fibroblasts irradiated with UVA and treated with AmO at concentrations of 0.05%, 0.1% and 0.15%. The mean values from the experiments performed in triplicates. *statistically significant differences at $p < 0.05$ compared with the control. **statistically significant difference at $p < 0.05$ compared to UVA.

Sample	Control	0.05% AmO	0.1% AmO	0.15%AmO	UVA	0.05% AmO + UVA	0.1% AmO + UVA	0.15%AmO + UVA
Mean value	116.4	123.38	126.87	130.36	62.86	87.3	93.12	98.94
% of control value	100	106	109	112	54*	75**	80**	85**

Figure S1 Western blot densitometry (plot measurement) results by gel analysis tool for ImageJ® 1.8.0 for β 1- integrin (A) and IGF-IR (B) receptors expression in UVA-irradiated fibroblasts in the presence of AmO at concentrations of 0.05%, 0.1%. and 0.15%.

(A)

Sample	Plot measurement	% of control
Control ^(a)	7581.518	100
0.05% AmO ^(b)	6555.539	86.46737
0.1% AmO ^(c)	6438.468	84.9232
0.15%AmO ^(d)	6348.63	83.73824
UVA ^(e)	1439.355	18.98505
0.05% AmO + UVA ^(f)	1788.941	23.59608
0.1% AmO + UVA ^(g)	3641.104	48.02605
0.15%AmO + UVA ^(h)	3841.083	50.66377



(B)

Sample	Plot measurement	% of control
Control ^(a)	12890.782	100
0.05% AmO ^(b)	11842.539	91.86827
0.1% AmO ^(c)	11883.075	92.18273
0.15%AmO ^(d)	12334.953	95.68817
UVA ^(e)	3148.154	24.42175
0.05% AmO + UVA ^(f)	7389.397	57.32311
0.1% AmO + UVA ^(g)	8502.589	65.95867
0.15%AmO + UVA ^(h)	8557.125	66.38174

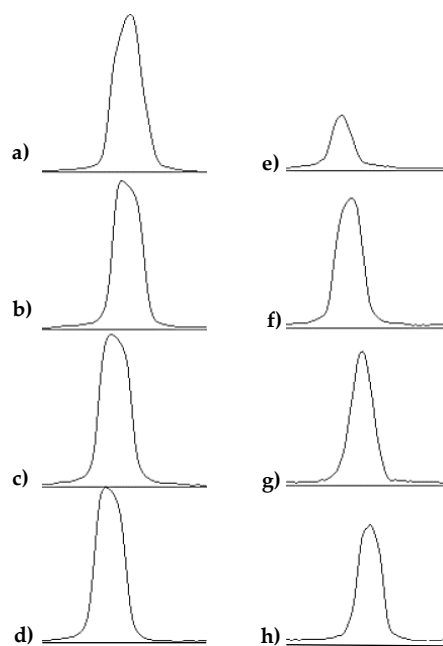
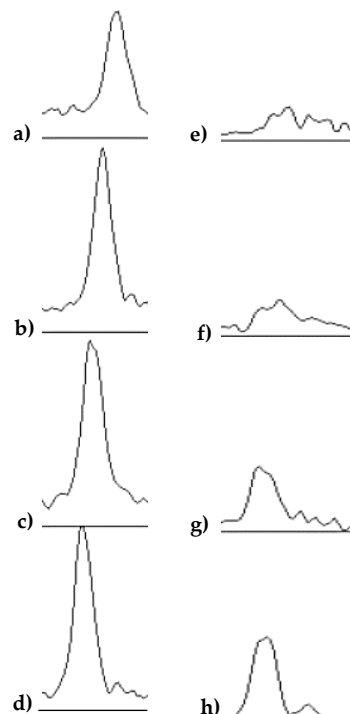


Figure S2 Western blot densitometry (plot measurement) results by gel analysis tool for ImageJ® 1.8.0 for TGF- β 1 (A) and p38 (B) protein expression in UVA-irradiated fibroblasts in the presence of AmO at concentrations of 0.05%, 0.1%, and 0.15%.

(A)

Sample	Plot measurement	% of control
Control ^(a)	4187.0	100
0.05% AmO ^(b)	5067.7	121
0.1% AmO ^(c)	5880.4	170
0.15%AmO ^(d)	6208.1	252
UVA ^(e)	640.5	15
0.05% AmO + UVA ^(f)	1068.4	26
0.1% AmO + UVA ^(g)	2060.9	49
0.15%AmO + UVA ^(h)	3273.3	78



B)

Sample	Plot measurement	% of control
Control ^(a)	1473.941	100
0.05% AmO ^(b)	1520.719	103
0.1% AmO ^(c)	1497.548	102
0.15%AmO ^(d)	1823.406	124
UVA ^(e)	4745.033	322
0.05% AmO + UVA ^(f)	3081.426	209
0.1% AmO + UVA ^(g)	2911.205	198
0.15%AmO + UVA ^(h)	1548.184	105

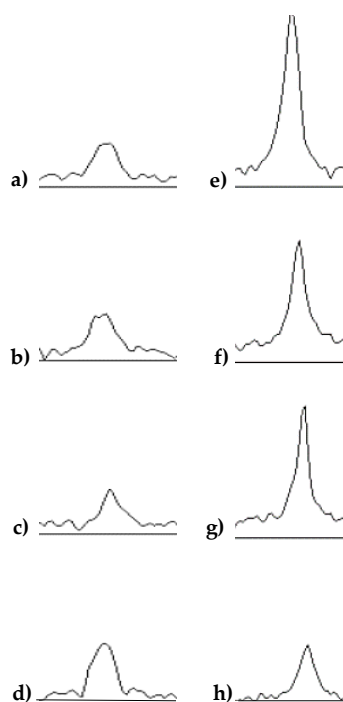


Figure S3 Western blot densitometry (plot measurement) results by gel analysis tool for ImageJ® 1.8.0 for COX-2 protein expression in UVA-irradiated fibroblasts in the presence of AmO at concentrations of 0.05%, 0.1%, and 0.15%.

Sample	Plot measurement	% of control
Control ^(a)	2926.255	100
0.05% AmO ^(b)	3177.255	109
0.1% AmO ^(c)	3385.983	116
0.15%AmO ^(d)	3484.154	119
UVA ^(e)	7350.811	251
0.05% AmO + UVA ^(f)	6140.983	210
0.1% AmO + UVA ^(g)	5932.225	203
0.15%AmO + UVA ^(h)	2874.418	98

