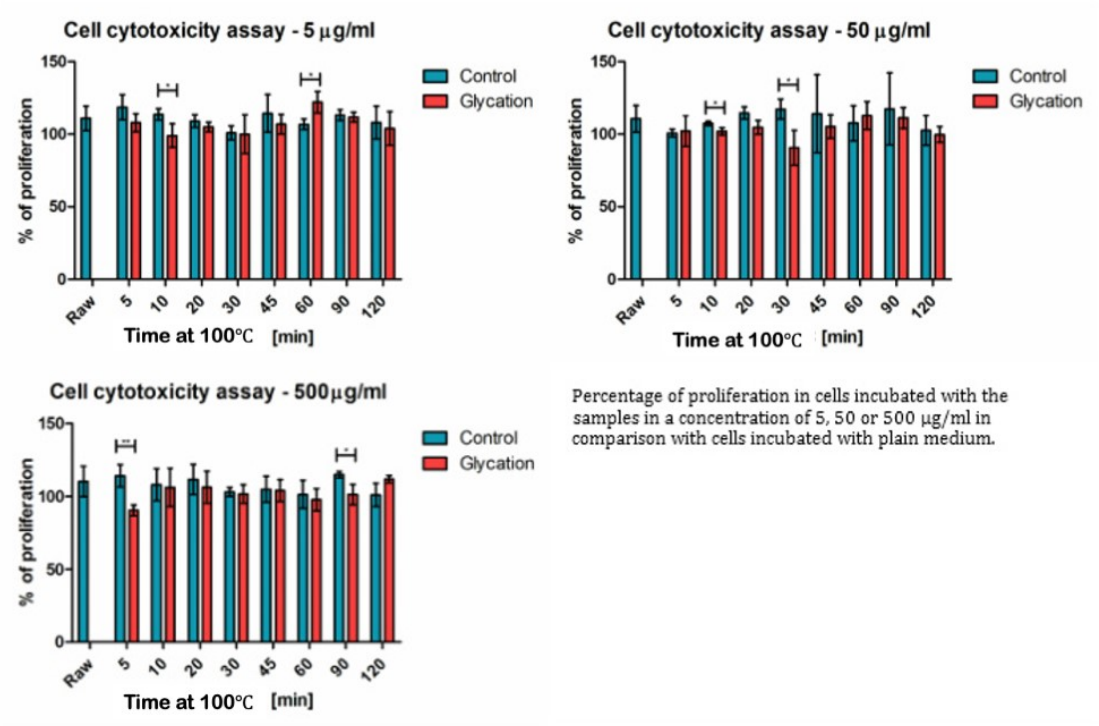
Supplementary data

Manuscript title "*Soy derived Maillard reaction products (MRPs) are recognized by AGE-receptors and promote pro-inflammatory response in human derived monocytes*"

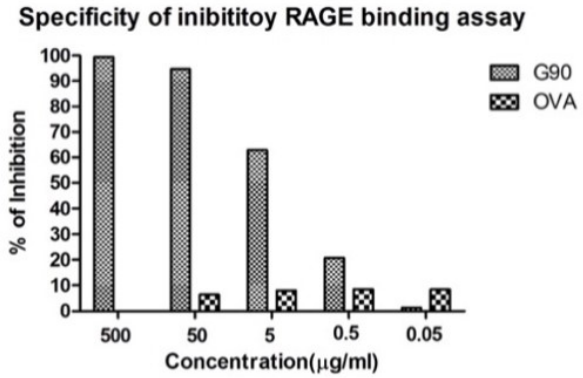


Supplementary Figure 1. *No cytotoxicity of SPEs was observed after 24 hours of incubation of Caco-2 cells with SPEs with any of the tested concentrations 5, 50 and 500 µg/ml (shown in supplemental Figure 1). For all three concentrations, the amount of proliferation in the control and G-SP was stable, with the control samples showing a higher mean and median when compared to the G-SP. However, the mean and median of the G-SP was always above 100%.*

Genes	Forward	Reverse
PUM1	TGAGGTGTGCACCATGAAC	CAGAATGTGCTTGCCATAGG
IL-1B	TTCGACACATGGGATAACGAGG	TTTTTGCTGTGAGTCCCGGAG
IL-8	CTGATTTCTGCAGCTCTGTG	GGGTGGAAAGGTTTGGAGTATG
TNFa	CTT-CTG-CCT-GCT-GCA-CTT-TG	GTC-ACT-CGG-GGT-TCG-AGA-AG
IL-10	TCAAGGCGCATGTGAACTCC	GATGTCAAACTCACTCATGGCT
RAGE	GCT-TGG-AAG-GTC-CTG-TCT-CC	CAC-GGA-CTC-GGT-AGT-TGG-AC
LGALS3	GTGAAGCCCAATGCAAACAGA	AGCGTGGGTTAAAGTGGAAGG
CD209	TCAAGCAGTATTGGAACAGAGGA	CAGGAGGCTGCGGACTTTTT
CD86	CTGCTCATCTATACACGGTTACC	GGAAACGTCGTACAGTTCTGTG

Supplementary Figure 2. *Primers used in the PBMCs stimulation and cytokine measurement*

***Supplementary Figure 3**. Depiction of main soy proteins of raw soy*



***Supplementary Figure 4.** Optimization of sRAGE competition ELISA with G-SP 90 minutes (G90)*

Ratios

RAGE vs…

Time of soy glycation	RAGE binding %	RAGE vs CML	RAGE vs Furosine	RAGE vs CEL	RAGE vs fructosamine	RAGE vs browning	RAGE vs DPPH	RAGE vs Gal-3	RAGE vs CD36	MR stages
30 min	8	0.67	0.17	2.00	0.05	0.04	1.04	0.15	0.40	Early
45 min	30	1.88	0.54	7.50	0.16	0.10	1.78	0.45	1.32	Intermediate
60 min	35	1.52	0.52	7.00	0.21	0.10	1.73	0.47	1.33	Intermediate
90 min	68	1.94	0.72	9.71	0.32	0.11	1.78	1.83	1.51	Advanced / late
120 min	82	2.10	0.89	13.67	0.37	0.11	1.74	1.82	1.62	Advanced/ late

GAL-3 vs..

	GAL-3 binding %	GAL-3 vs CML	GAL-3 vs Furosine	GAL-3 vs CEL	GAL-3 vs fructosamine	GAL-3 vs browning	GAL-3 vs DPPH	MR stages
30 min	52.69	4.39	1.10	13.17	0.34	0.27	6.87	Early
45 min	67.025	4.19	1.20	16.76	0.36	0.23	3.97	Intermedíate
60 min	73.76	3.21	1.10	14.75	0.44	0.21	3.65	Intermedíate
90 min	37.25	1.06	0.40	5.32	0.18	0.06	0.97	Advanced / late
120 min	45.12	1.16	0.49	7.52	0.21	0.06	0.96	Advanced/ late

CD36 vs..

	CD36 binding %	CD36 vs CML	CD36 vs Furosine	CD36 vs CEL	CD36 vs fructosamine	CD36 vs browning	CD36 vs DPPH	
30 min	20.12	1.68	0.42	5.03	0.13	0.10	2.62	Early
45 min	22.7	1.42	0.41	5.68	0.12	0.08	1.35	Intermedíate
60 min	26.29	1.14	0.39	5.26	0.16	0.08	1.30	Intermedíate
90 min	45	1.29	0.48	6.43	0.21	0.07	1.18	Advanced / late
120 min	50.68	1.30	0.55	8.45	0.23	0.07	1.08	Advanced/ late

Ratio CML vs..

	CML mg/g	CML vs Furosine	CML vs CEL	CML vs Fructosamine	CML vs Fluorescence	CML vs browning	CML vs DPPH	
30 min	0.12	0.25	3.00	0.08		0.06	1.56	Early
45 min	0.16	0.29	4.00	0.09	0.00006	0.05	0.95	Intermedíate
60 min	0.23	0.34	4.60	0.14	0.00008	0.07	1.14	Intermedíate
90 min	0.35	0.37	5.00	0.17	0.00014	0.05	0.92	Advanced / late
120 min	0.39	0.42	6.50	0.18	0.00019	0.05	0.83	Advanced/ late

Supplementary Figure 5. *Calculated ratios of AGE receptor binding and several parameters measured in the study.*