Supplementary Table. 1. Statistical data of histological analysis of staining markers in control, D-galactose, and gintonin (50 mg/kg or 100 mg/kg)-fed D-gal groups. The table includes mean, standard error of mean (SEM), *p* value, and degree of freedom. *p*-values shown in the table are obtained from post-hoc analysis using Bonferroni's multiple comparison test (n = 5 per group).

Immunostain marker		**Control**	**D-gal**	**D-gal-GT50**	**D-gal-GT100**
Ki67⁺ nuclei	**Mean**	19	7.1	10.4	15.6
	SEM	1.422	0.674	3.134	1.343
	***p* value**	**Control vs**	*P* < 0.001	*P* < 0.001	*P* > 0.05
			D-gal vs	*P* > 0.05	*P* < 0.001
	Degree of freedom	F (3,36) = 21.36		**D-gal-GT50 vs**	*P* < 0.01
DCX⁺ cells	**Mean**	109.4	64.5	85.8	102.8
	SEM	6.501	2.517	3.693	5.561
	***p* value**	**Control vs**	*P* < 0.001	*P* < 0.01	*P* > 0.05
			D-gal vs	*P* < 0.05	*P* < 0.001
	Degree of freedom	F (3,36) = 17.26		**D-gal-GT50 vs**	*P* > 0.05
BrdU⁺ cells	**Mean**	10.09	3.54	6.09	8.27
	SEM	0.928	0.542	0.517	1.306
	***p* value**	**Control vs**	*P* < 0.001	*P* < 0.01	*P* > 0.05
			D-gal vs	*P* > 0.05	*P* < 0.01
	Degree of freedom	F (3,40) = 12.16		**D-gal-GT50 vs**	*P* > 0.05
BrdU⁺-NeuN⁺ cells	**Mean**	5.45	1.63	3.18	4.27
	SEM	0.845	0.26	0.3	0.757
	***p* value**	**Control vs**	*P* < 0.001	*P* < 0.05	*P* > 0.05
			D-gal vs	*P* > 0.05	*P* < 0.05
	Degree of freedom	F (3,40) = 8.596		**D-gal-GT50 vs**	*P* > 0.05
Percentage of BrdU⁺-NeuN⁺ cells/BrdU⁺ cells	**Mean**	52.34	49.84	52.96	51.19
	SEM	6.923	11.073	7.824	5.905
	***p* value**	**Control vs**	*P* > 0.05	*P* > 0.05	*P* > 0.05
			D-gal vs	*P* > 0.05	*P* > 0.05
	Degree of freedom	F (3,40) = 0.1124		**D-gal-GT50 vs**	*P* > 0.05
pCREB⁺ nuclei	**Mean**	20.1	9.7	15	19.5
	SEM	1.53	1.38	0.94	1.24
	***p* value**	**Control vs**	*P* < 0.001	*P* > 0.05	*P* > 0.05
			D-gal vs	*P* < 0.05	*P* < 0.001
	Degree of freedom	F (3,36) = 13.91		**D-gal-GT50 vs**	*P* > 0.05

Supplementary Table. 2. Statistical data of immunoblot analysis in control, D-galactose, gintonin (50 mg/kg or 100 mg/kg)-fed D-gal, and gintonin (100 mg/kg) groups. The table includes relative optic density (ROD), standard error of mean (SEM), p value, and degree of freedom. p-values shown in the table are obtained from post-hoc analysis using Bonferroni's multiple comparison test (n = 5 per group).

Immunoblot marker		**Control**	**D-gal**	**D-gal-GT50**	**D-gal-GT100**	**GT100**
DCX	**ROD**	100	58.43.	72.03	88.27	99.9
	SEM	4.064	3.763	3.613	3.392	5.65
	***p* value**	**Control vs.**	$P < 0.001$	$P < 0.001$	$P > 0.05$	$P > 0.05$
			D-gal vs.	$P > 0.05$	$P < 0.001$	$P < 0.001$
				D-gal-GT50 vs.	$P > 0.05$	$P < 0.001$
	Degree of freedom	F (4,45) = 18.98			**D-gal-GT100 vs.**	$P > 0.05$
LPA1 receptor	**ROD**	100	67.66	76.89	87.13	97.58
	SEM	5.162	3.903	4.116	3.307	3.974
	***p* value**	**Control vs.**	$P < 0.001$	$P < 0.01$	$P > 0.05$	$P > 0.05$
			D-gal vs.	$P > 0.05$	$P < 0.05$	$P < 0.001$
				D-gal-GT50 vs.	$P > 0.05$	$P < 0.01$
	Degree of freedom	F (4,45) = 10.96			**D-gal-GT100 vs.**	$P > 0.05$