

Table S1 ^1H NMR data of Cy3Gal

Isolated compound in CD ₃ OD			Cy3Gal in CD ₃ OD and DCl ¹¹⁾	Cy3Gal in CD ₃ OD ¹²⁾	Cy3Gal in CD ₃ OD:CF ₃ COOD (20:1) ¹³⁾	Cy3Gal in acidified CD ₃ OD ¹⁴⁾
position	δH (ppm)	HMBC	δH (ppm)	δH (ppm)	δH (ppm)	δH (ppm)
4	9.03	s 2, 3, 4a	8.98	s	9.113 d, $J = 1.0$ Hz	9.11 d, $J = 0.9$ Hz
6	6.65	d, $J = 1.0$ Hz 4a, 8	6.67	d, $J = 1.5$ Hz	6.738 d, $J = 2.0$ Hz	6.74 d, $J = 2.0$ Hz
8	6.9	d, $J = 1.0$ Hz	6.92	d, $J = 1.5$ Hz	6.982 dd, $J = 2.0, 1.0$ Hz	6.98 dd, $J = 2.0, 0.9$ Hz
2'	8.03	d, $J = 2.4$ Hz 4', 6'	8.04	d, $J = 2.5$ Hz	8.158 d, $J = 2.3$ Hz	8.17 d, $J = 2.4$ Hz
5'	7.01	d, $J = 8.8$ Hz 1', 3'	7.01	d, $J = 8.7$ Hz	7.105 d, $J = 8.8$ Hz	7.11 d, $J = 8.8$ Hz
6'	8.27	dd, $J = 8.8, 2.4$ Hz 2, 2', 4'	8.23	dd, $J = 8.7, 2.5$ Hz	8.358 dd, $J = 8.8, 2.3$ Hz	8.34 dd, $J = 8.8, 2.4$ Hz
1''	5.25	d, $J = 7.8$ Hz	5.43	d, $J = 7.3$ Hz	5.35 d, $J = 7.7$ Hz	5.34 d, $J = 7.7$ Hz
2''	3.98	dd, $J = 9.5, 7.8$ Hz	4.03	dd, $J = 11.8, 6.2$ Hz	4.08 dd, $J = 9.6, 7.7$ Hz	4.08 m
3''	3.65	dd, $J = 9.5, 3.5$ Hz	3.62	dd, $J = 11.8, 1.5$ Hz	3.76 dd, $J = 9.6, 3.4$ Hz	3.76 dd, $J = 9.9, 3.3$ Hz
4''	3.94	d, $J = 3.5$ Hz	3.81	dd, $J = 11.8, 6.2$ Hz	4.04 dd, $J = 3.4, 0.5$ Hz	4.04 t, $J = 3.3$ Hz
5''	3.76	m	3.64	m	3.89 m	3.89 m
6''a	3.82	m	3.71	dd, $J = 9.0, 7.6$ Hz	3.89 m	3.87 m
6''b	3.76-3.78	m	3.64	m	3.86 m	3.87 m
methanol 3.31 ppm as internal reference						

Table S2 Sample Materials

Material	Leaves			Galls		
Starting material (g)	133.4	395.3	358.0	78.9	305.3	416.1
After ODS column chromatography (mg)	346.7	112.1	66.3	301.0	108.1	204.1
After HPLC (mg)	5.1	1.0	8.6	36.5	71.6	22.3

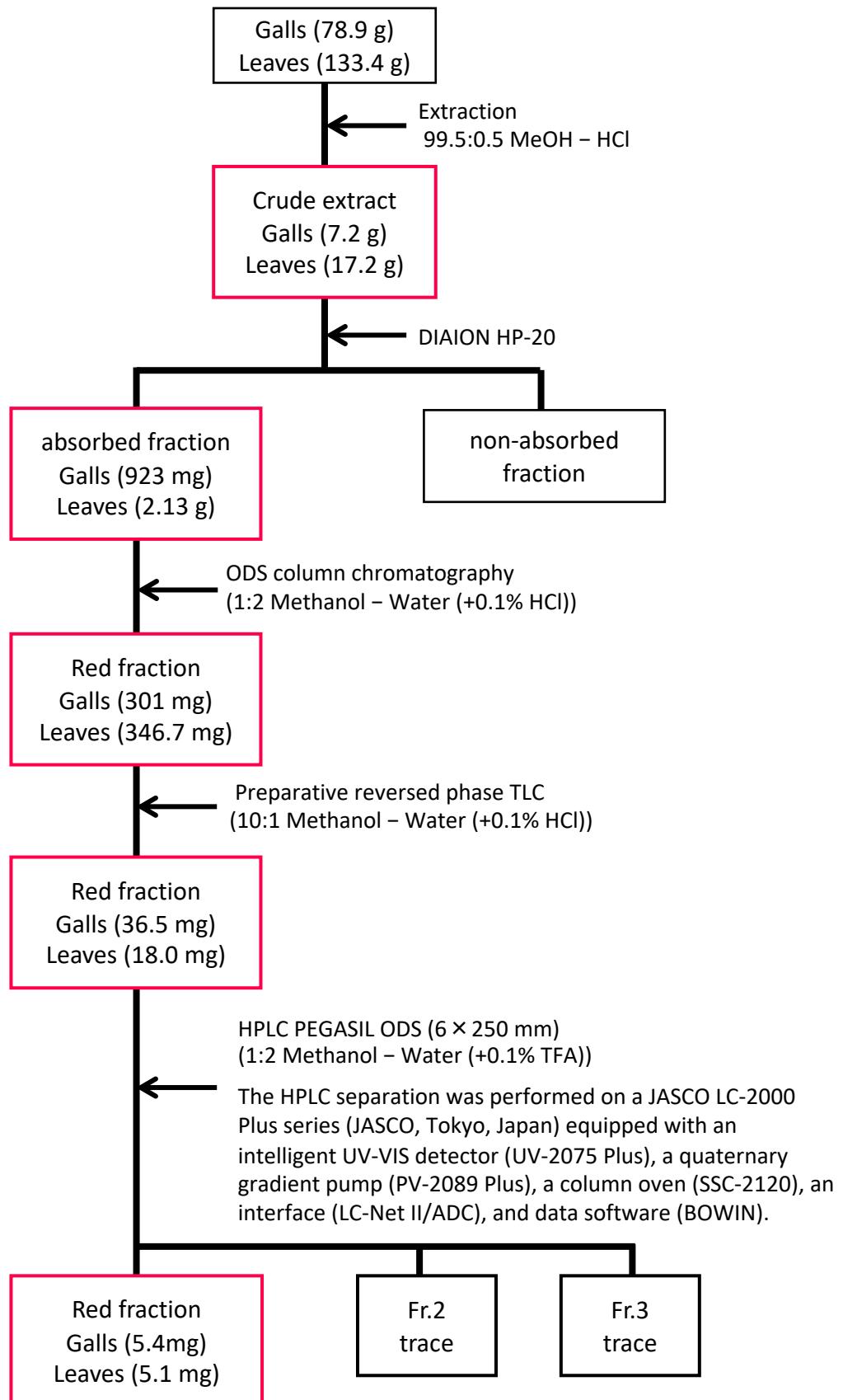


Fig. S1 Isolation scheme for cyanidin-3-O- β -galactoside

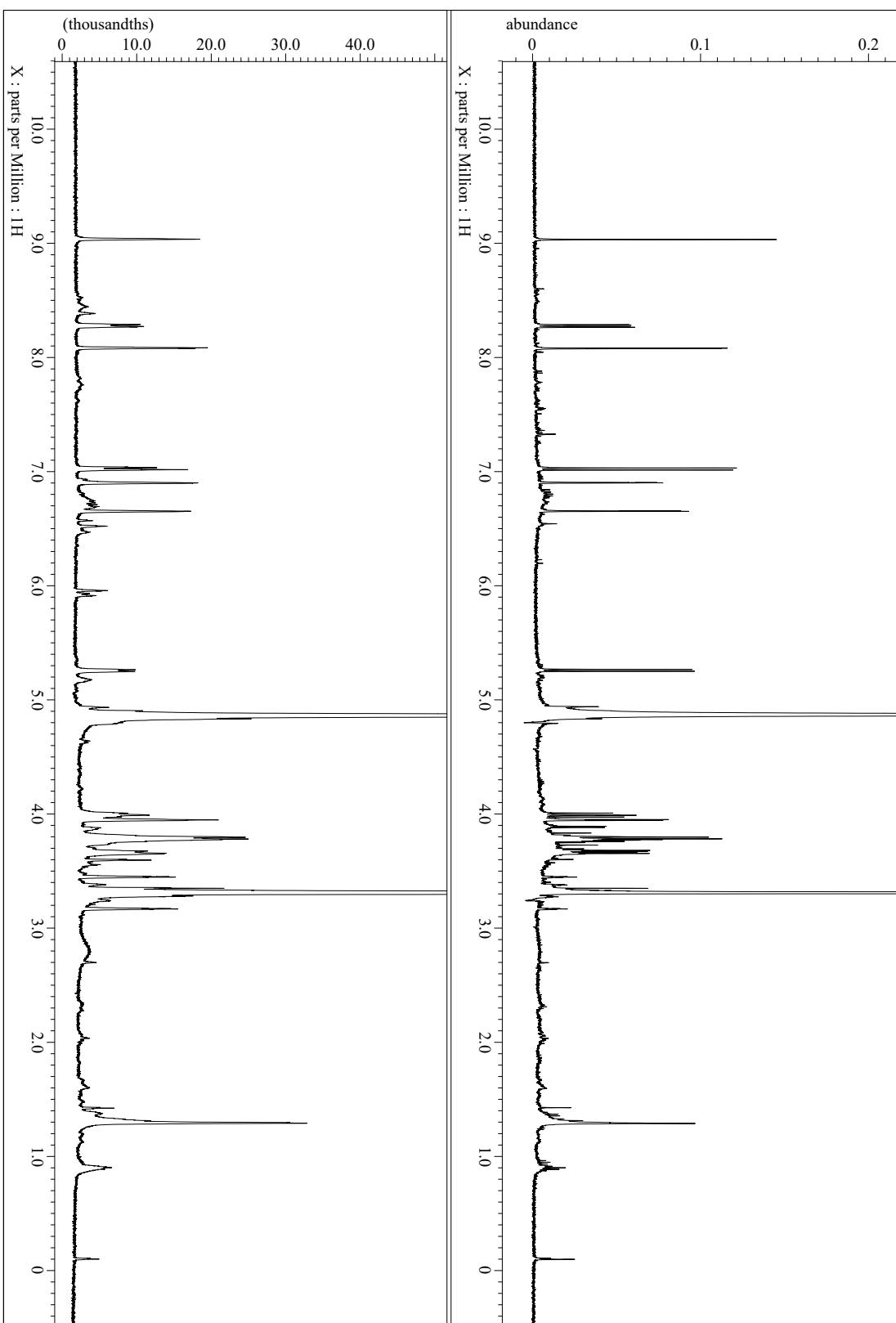


Fig. S2 ^1H NMR Spectra of Isolated compounds

Cy3Gal from Gall tissue (upper) and leaves (lower).

^1H NMR (500 MHz, CD_3OD), Methanol 3.31 ppm as internal reference.

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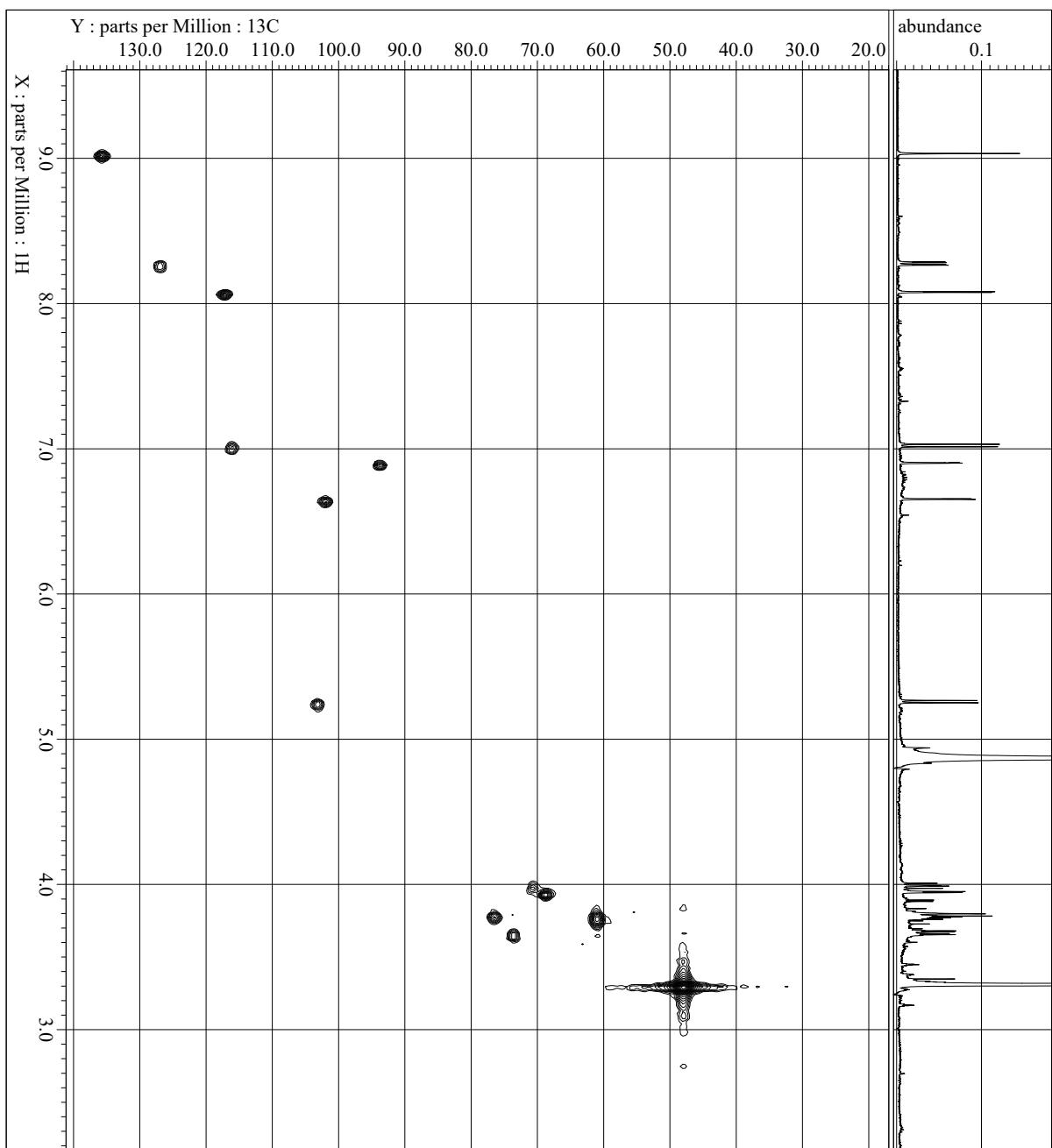


Fig. S3 HMQC NMR Spectrum of Isolated compound from gall tissue

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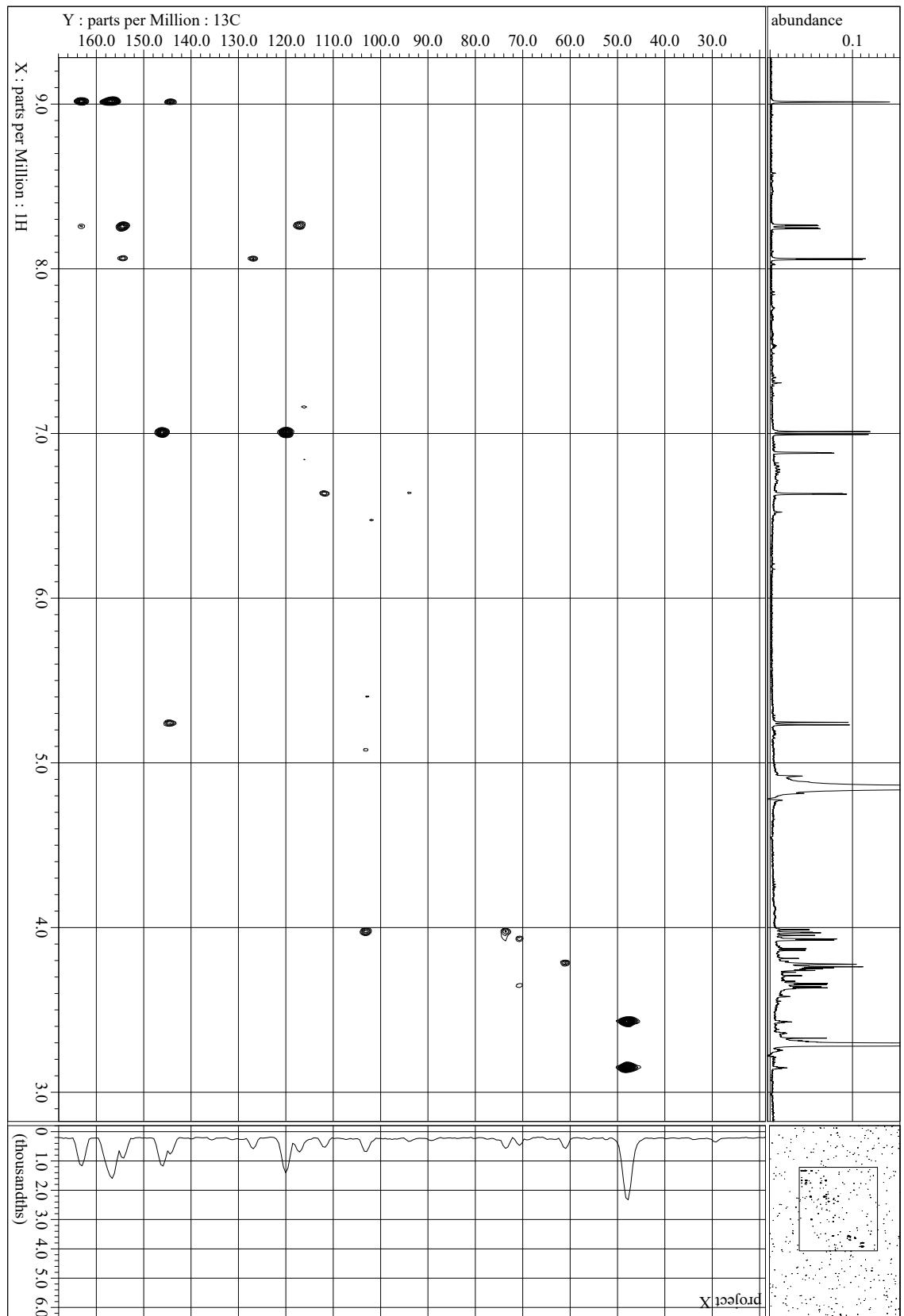


Fig. S4 HMBC NMR Spectrum of Isolated compound from gall tissue

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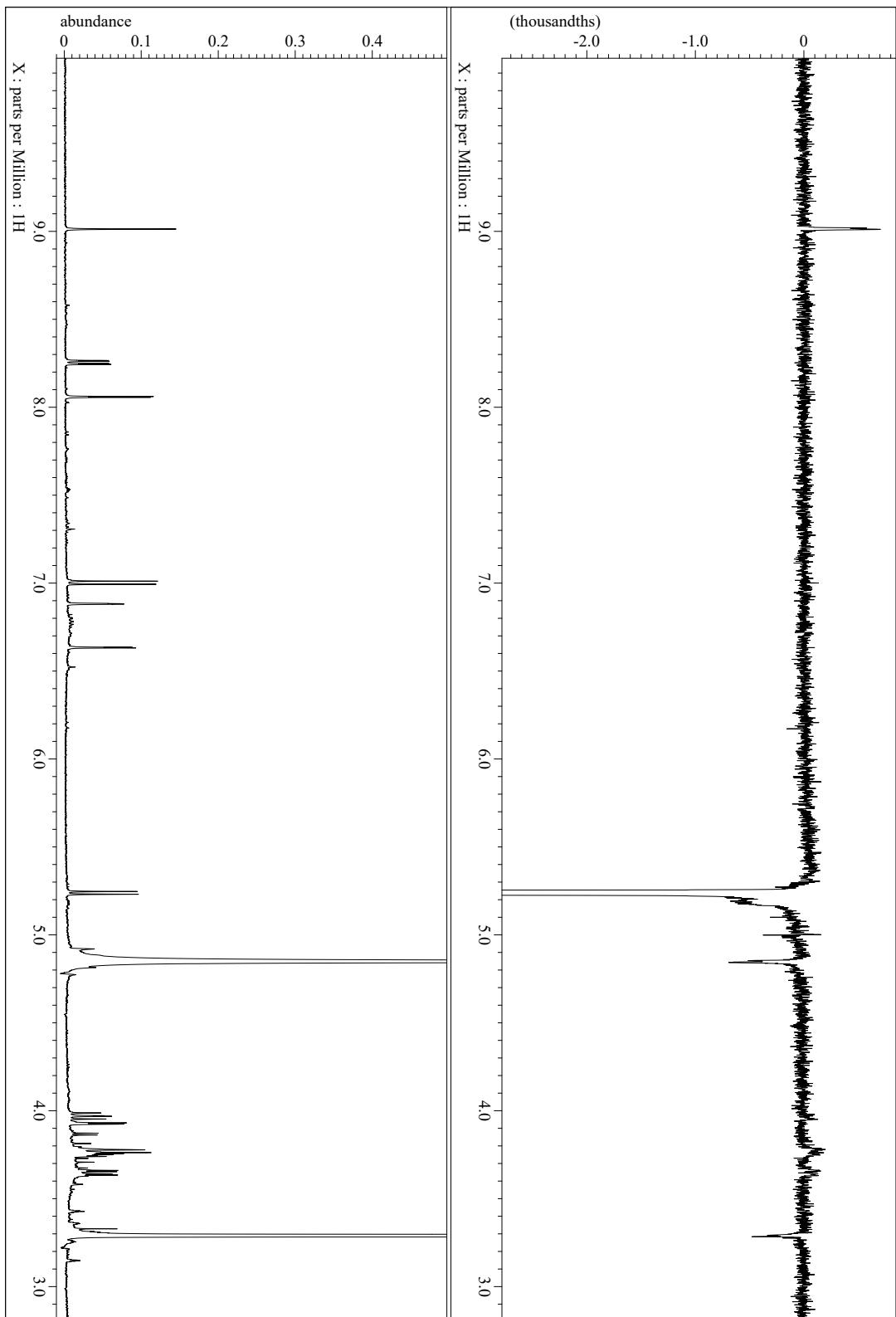


Fig. S5 NOE NMR Spectrum of Isolated compound from gall tissue

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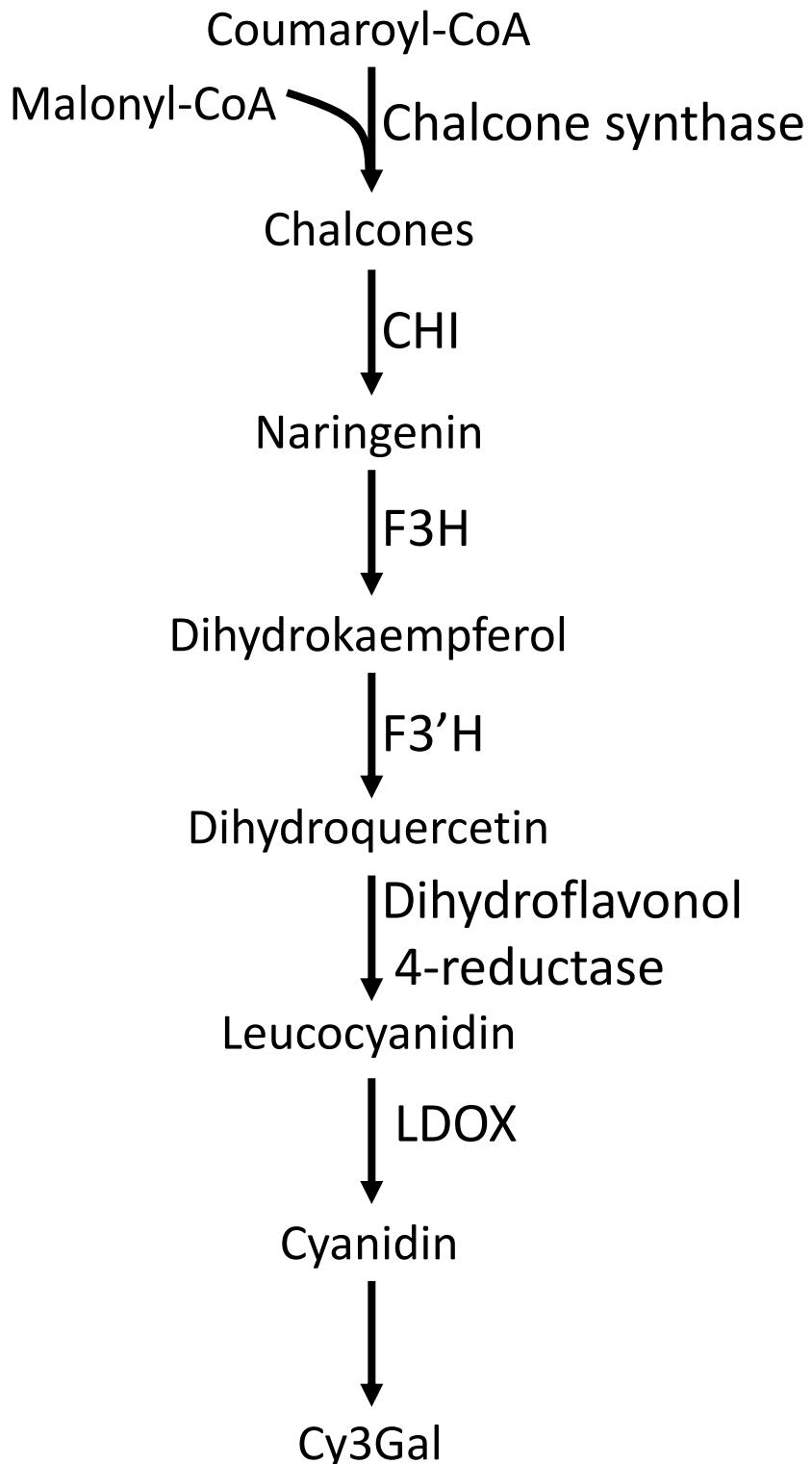


Fig. S6 Anthocyanin biosynthetic pathway