

Supplementary data

Table 1: Summary table of active ingredients in the *Bauhinia brachycarpa Benth*

NO	Compound Name	Compound Type
1	5,7,3',4',5'-Pentamethoxyflavone	Flavone
2	Gallic acid	Polyphenol
3	Methyl 3,4,5-trihydroxybenzoate	Phenolic compound
4	Luteolin	Flavone
5	Quercetin	Flavonol
6	Apigenin	Flavone
7	Eriodictyol	Flavanone
8	Kaempferol	Flavonol

Table 2: Summary of diseases and compounds intersection targets

NO	Gene name	Gene symbol	UniProt ID
1	Ptgs2 Cox-2 Cox2 Pgbs-b Tis10	PTGS2	Q05769
2	Mmp9 Clg4b	MMP9	P41245
3	Pparg Nr1c3	PPARG	P37238
4	Nos2 Inosl	NOS2	P29477
5	Akt1 Akt Rac	AKT1	P31750
6	F2 Cf2	F2	P19221
7	Mapk14 Crk1 Csbp1 Csbp2	MAPK14	P47811
8	Ptgs1 Cox-1 Cox1	PTGS1	P22437
9	Mmp2	MMP2	P33434
10	Pik3ca	PIK3CA	P42337
11	Mapk1 Erk2 Mapk Prkm1	MAPK1	P63085
12	Mtor Frap Frap1	MTOR	Q9JLN9
13	Ar Nr3c4	AR	P19091
14	Ret	RET	P35546
15	Gsk3b	GSK3B	Q9WV60
16	Lta4h	LTA4H	P24527
17	Braf B-raf	BRAF	P28028
18	Hsp90aa1 Hsp86 Hsp86-1 Hspca	HSP90AA1	P07901
19	Hrh1 Bphs	HRH1	P70174
20	Mapk3 Erk1 Prkm3	MAPK3	Q63844
21	Adora2a	ADORA2A	Q60613
22	Comt Comt1	COMT	O88587
23	Chrna7 Acra7	CHRNA7	P49582
24	Tyr	TYR	P11344
25	Cnr2	CNR2	P47936
26	Ache	ACHE	P21836
27	Adora1	ADORA1	Q60612
28	Oprm1 Mor Oprm	OPRM1	P42866
29	Kit Sl	KIT	P05532
30	Insr	INSR	P15208
31	Map2k1 Mek1 Prkmk1	MAP2K1	P31938
32	Scn9a Kiaa4197	SCN9A	Q62205
33	Tacr2 Tac2r	TACR2	P30549
34	Bche	BCHE	Q03311
35	Maoa	MAOA	Q64133
36	Oprd1	OPRD1	P32300
37	Mapk9 Jnk2 Prkm9	MAPK9	Q9WTU6
38	Drd2	DRD2	P61168
39	Maob	MAOB	Q8BW75
40	Mapk11 Prkm11	MAPK11	Q9WUI1
41	Sigmar1 Oprs1	SIGMAR1	O55242
42	Htr2c 5ht1c Htr1c	HTR2C	P34968