

Anthranilic acid-Based Inhibitors of Phosphodiesterase: Design, Synthesis, and Bioactive Evaluation

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Supporting Information

Contents:

HPLC analysis of the target compounds.

HPLC analysis of the final compounds.

Compound purities were determined by two diverse HPLC conditions.

HPLC conditions No.1:

System: Jasco PU-1580 intelligent HPLC PUMP,

Jasco AS-1555-10 intelligent sampler

Detector: Jasco UV-Vis detector, 248 nm

Column: Ascentis[®] C-18 (SUPELCU[™] analytical), 5µm, 4.6 mm x 250 mm

Mobile phase: 75% MeCN

Mode: Isocratic system

Flow rate: 1 mL / min

HPLC conditions No.2:

System: Jasco PU-1580 intelligent HPLC PUMP,

Jasco AS-1555-10 intelligent sampler

Detector: Jasco UV-Vis detector, 248 nm

Column: Ascentis[®] C-18 (SUPELCU[™] analytical), 5µm, 4.6 mm x 250 mm

Mobile phase: A: 80% MeOH

Mode: Isocratic system

Flow rate: 1 mL / min

HPLC analysis of the final compounds

HPLC condition No.1					
Compounds	Retention time (min)	Purity (area %)	Compounds	Retention time (min)	Purity (area %)
8	8.8	98.8	32	6.2	98.8
9	9.0	99.8	33	7.4	99.4
10	12.0	99.5	34	7.7	99.4
11	11.6	99.2	35	8.0	99.7
12	11.9	99.8	36	9.7	99.6
13	16.3	99.4	37	10.1	99.7
14	16.1	99.7	40	5.7	98.5
15	16.4	99.8	41	6.9	99.3
16	5.7	99.9	42	7.3	96.5
17	7.4	99.8	43	7.5	99.7
18	9.8	99.7	44	9.2	99.8
19	3.6	98.1	45	9.7	99.4
20	4.1	99.8	46	10.0	99.1
21	4.9	99.4	47	12.6	99.6
22	3.5	98.8	48	13.3	99.3
23	5.1	99.1	49	13.5	99.4
24	3.7	98.4	50	17.2	99.8
25	3.8	99.3	51	18.3	99.4
26	2.8	99.2	52	9.5	99.4
27	5.5	99.4	53	12.8	99.6
29	5.0	99.5	54	14.0	99.7
30	5.8	99.5	56	11.8	99.0
31	6.0	98.7	58	15.0	98.0

HPLC condition No.2					
Compounds	Retention time (min)	Purity (area %)	Compounds	Retention time (min)	Purity (area %)
8	8.4	98.0	32	4.9	99.8
9	8.3	96.1	33	5.9	99.3
10	13.0	99.1	34	6.2	99.0
11	11.3	96.6	35	6.2	99.1
12	11.4	96.1	36	7.6	97.0
13	18.7	97.8	37	8.2	96.8
14	16.1	97.8	40	6.0	99.8
15	16.2	99.4	41	7.4	97.3
16	5.1	96.6	42	7.8	96.5
17	6.7	99.4	43	8.0	99.6
18	9.0	98.9	44	9.9	99.6
19	3.2	99.3	45	10.6	99.3
20	3.5	99.4	46	11.0	98.8
21	4.1	97.3	47	14.0	97.2
22	3.9	96.2	48	14.9	99.3
23	6.6	99.7	49	15.0	97.3
24	3.8	96.8	50	19.3	97.8
25	3.9	99.7	51	21.7	98.4
26	3.0	99.6	52	10.6	97.6
27	5.1	96.0	53	14.8	97.1
29	4.7	99.2	54	16.4	98.1
30	4.0	99.2	56	13.6	97.8
31	4.9	98.0	58	17.0	97.5