

Appendix S1. Detailed analytical condition of liquid chromatography-tandem mass spectrometry (LC-MS/MS).

LC conditions:

LC system: Shimadzu 30A system (Shimadzu Corp., Kyoto, Japan)

Column: ACQUITY UPLC BEH C18 (2.1 × 50 mm, 1.7 µm, Waters Corp., Milford, MA)

Guard column: VanGuard HSS T3 (2.1 × 5 mm, 1.8 µm, Waters Corp.)

Column temperature: 40°C

Sample cooler temperature: 4°C

Flow rate: 0.6 mL/min

Injection volume: 50 µL

Mobile phases: A = 0.05% formic acid, B = methanol

Needle wash solvents: 0.05% formic acid, 300 µL → 40% methanol, 300 µL

Gradient: at 0.0 min, 40% B
 at 1.0 min, 40% B
 at 3.0 min, 80% B
 at 4.5 min, 80% B
 at 4.6 min, 40% B
 at 6.0 min, 40% B

MS/MS conditions:

MS system: QTRAP 5500 system (AB SCIEX, Framingham, MA)

Ionization method: electrospray ionization (ESI, positive mode)

Scan mode: multiple reaction monitoring (MRM)

Turbo gas temperature: 500°C

Monitoring ion (Q1/Q3, m/z):

bromfenac:	334/288
nepafenac:	255/210
amfenac:	256/210
diclofenac:	296/214
diclofenac-d4:	302/256