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Identification of naringin metabolites mediated by human intestinal microbes with stable isotope-labeling method and UFLC-Q-TOF-MS/MS

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Highlights

- A total of 13 naringin metabolites mediated by human intestinal microbes were identified, among which 5 were reported for the first time.
- Naringin underwent extensive phase I metabolism in human intestinal microbes.
- Microbial metabolic profiles of naringin among different human individuals were diverse.
- Stable isotope-labeling method was efficient to eliminate the endogenous interferences during metabolism research on pharmaceutical compounds.

Abstract

Widely presented in medicinal plants, naringin is one of the major flavanones with various pharmaceutical bioactivities. After oral administration, naringin