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Improved oral bioavailability of notoginsenoside R1 with sodium glycocholate-mediated liposomes: preparation by supercritical fluid technology and evaluation in vitro and in vivo¹

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Abbreviations:

CCD, central composite design; NGR1@Liposomes, NGR1-loaded liposomes; DLS, dynamic light scattering; EE, encapsulation efficiency; FACS, fluorescent-activated cell sorting; HPLC, high-performance liquid chromatography; ISCRPE, improved supercritical reverse evaporation; NGR1, notoginsenoside R1; Papp, apparent permeation coefficient; PDI, polydispersity index; scCO₂, supercritical carbon dioxide; SGC, sodium glycocholate; NGR1@SGC-Liposomes, SGC-mediated NGR1-loaded liposome; TEM, transmission electron microscopy.

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