Phallacidin from *Amanita phalloides*

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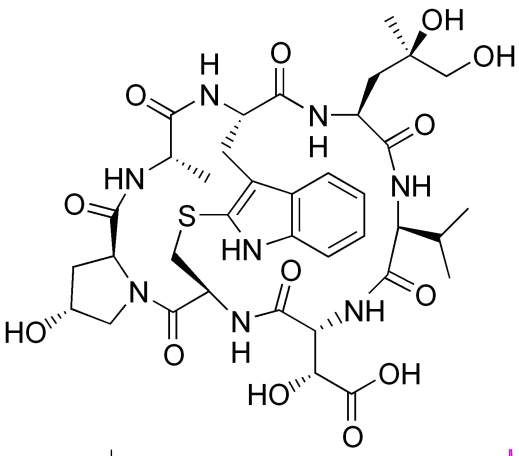
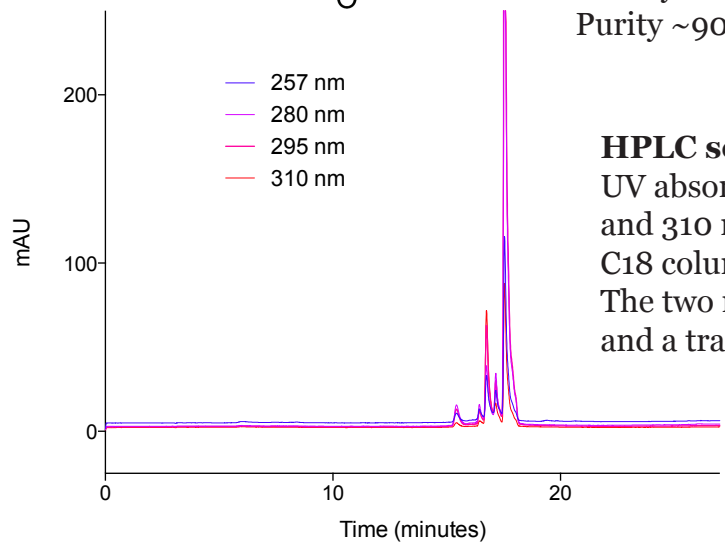


Structure of Phallacidin, a bicyclic heptapeptide with unique tryptathionine crossbridge. Potent inhibitor of actin depolymerization through high affinity binding to F-actin.
Purity ~90% Molecular weight = 846.3



HPLC separation of of Phallacidin. Shown is the UV absorbance at multiple wavelengths (230, 254, 280, and 310 nm) of a separation of purified phalloidin on a C18 column. By peak areas, phalloidin is ~90% pure. The two minor contaminants are phallisin II (16.8 min) and a trace of amaninamide (17.1 min), see MS below.

Mass spectroscopy of Phallacidin. Shown are mass specroscopic peaks and associated masses for the phallacidin peak eluting at 17.2 min, consistent with the mass of phallacidin ($M+H^+$ = 847.4) and adducts ($M+Na^+$ = 869.4, $M+K^+$ = 885.4). The lower panels show the MS of the minor contaminant peaks, consistent with amaninamide ($M+H^+$ = 903.4, $M+Na^+$ = 925.4, $M+K^+$ = 941.2) and phallisin II ($M+H^+$ = 805.4, $M+Na^+$ = 827.4, $M+K^+$ = 843.3).