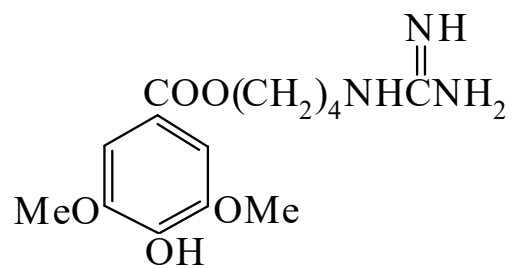




>>Entry Name: Leonurine

Synonym(s): 4-[(Aminoiminomethyl)amino]butyl 4-hydroxy-3,5-dimethoxybenzoate, 9Cl. 4-Guanidinobutyl syringate



CAS Registry Number: 24697-74-3

Molecular Formula: C₁₄H₂₁N₃O₅

Molecular Weight: 311.337

Accurate Mass: 311.148122

Percentage Composition: C 54.01%; H 6.80%; N 13.50%; O 25.69%

Biological Source: Alkaloid from *Leonurus artemisia* (a Chinese herbal medicine used in obstetrics) and *Leonurus sibiricus* (Labiatae)

Use/Importance: Uterotonic agent

Melting Point: Mp 229-230°

pKa Value: pK_a 7.9 (H₂O)

>>Derivative: Hydrochloride

Melting Point: Mp 195-196°

References:

Goto, T. *et al.*, *Tet. Lett.*, 1962, 545, (*isol*)

Sugiura, S. *et al.*, *Tetrahedron*, 1969, **25**, 5155, (*synth*)

Yeung, H.W. *et al.*, *Planta Med.*, 1977, **31**, 51, (*isol, ir, pmr, ms, struct*)

Cheng, K.F., *Experientia*, 1979, **35**, 571, (*synth*)