DHH-B

Purity: >98% (HPLC on request) I Molecular Formula: C24H31N04
Molecular Weight: 397.51 g/mol I Sequence: Non- peptide

DESCRIPTION:

DHH-B, dihydrohonokiol-B, is a natural supplement which has anxiolytic-effects. Treatment with DHH-B does not cause any significant changes in motor activity or muscle relaxation. Benzodiazepines are some of the most commonly prescribed medications in the United States. These anxiolytics have many well-known side effects including motor function and more. That being said, this product has the potential to help people transition from benzodiazepines to DHH-B or act as an alternative to benzodiazepines.

PROTOCOL:

Content & Potency: 7.5mg capsule provided in a quantity of 60 capsules
Suggested dosage: Take 1-2 capsules as needed

CLINICAL RESEARCH:

Comparative assessment of the anxiolytic-like activities of honokiol and derivatives

A Department of Neuropsychopharmacology (Tsumura), Gunma University School of Medicine, 3-39-22 Showa-machi, Maebashi, Gunma 371-8511, Japan Research Laboratories, Tsumura and Co., Ami-machi, Inashiki-gun, Ibaraki 300-1192, Japan Department of Biochemistry, The University of Texas Health Science Center at San Antonio, San Antonio, TX, USA

Honokiol has previously been shown to be an effective anxiolytic-like agent in mice when administered for 7 days at 0.2 mg/kg/day prior to evaluation in an elevated plus-maze, while 20 mg/kg is required for efficacy as a single oral dose. The aim of this study was to find analogs of honokiol that are more effective for acute administration. Among the eight analogs evaluated, one partially reduced derivative of honokiol [30-(2-propeny1)-5-propyl-(1,10-bipheny1)-2,40-diol] exhibited significant anxiolytic-like activity at 0.04 mg/kg. Following oral administration of 1 mg/kg of this analog, anxiolytic-like activity was clearly evident at 1 h, peaked at 3 h, and remained significant for longer than 4 h after treatment. Combined administration of the derivative with diazepam led to enhanced anxiolytic-like efficacy. Moreover, as with diazepam, the anxiolytic-like effect of the analog was reduced by flumazenil. In contrast, bicuculline, a GABAA antagonist, had no effect on the activity of the derivative. Taken together, these results suggest that this analog of honokiol acts at the benzodiazepine recognition site of the GABAA ± benzodiazepine receptor complex.

Hisashi Kuribaraa, Eiko Kishia, Masayuki Kimurab, Susan T Weintraubc, Yuji Maruyamaa,*