

Product Data Sheet

Product Name: Valnoctamide

Cat. No.: GC41613

Chemical Properties

Cas. No. 4171-13-5

SMILES CCC(C(N)=O)C(C)CC

Formula C₈H₁₇NO

M.Wt 143.2

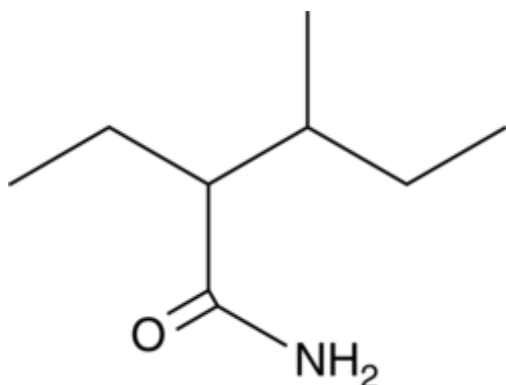
Solubility DMF: 16 mg/ml, DMSO: 30 mg/ml, Ethanol: 25 mg/ml, PBS (pH 7.2): 1 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure



Background

Valnoctamide is an isomer of the valproic acid amide, valpromide. It has been marketed as an anxiolytic and sedative compound and suppresses neuropathic pain. Unlike valpromide, valnoctamide is not metabolized to its acid form, valnoctic acid, in vivo and has no teratogenicity. It abolishes the activity of myo-inositol-1-phosphate synthase in human brain crude homogenates ($K_i = 0.18$ mM). Valnoctamide suppresses electrographic seizures in animal models of status epilepticus, suggesting potential applications in managing epilepsy.

Caution: Product has not been fully validated for medical applications. For research use only.

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