
Product Data Sheet

Product Name: MCHB-1
 Cat. No.: GC18866

Chemical Properties

Cas. No. 1046140-32-2

Chemical Name 1-(cyclohexylmethyl)-2-[(4-ethoxyphenyl)methyl]-N,N-diethyl-1H-benzimidazole-5-carboxamide

SMILES CCOC(C=C1)=CC=C1CC2=NC3=CC(C(N(CC)CC)=O)=CC=C3N2CC4CCCCC4

Formula C₂₈H₃₇N₃O₂ M.Wt 447.6

Solubility DMF: 30 mg/ml, DMSO: 25 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:4): 0.2 mg/ml
 Store Storage 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 size: ship with RT, or blue ice upon request.

Structure

Background

MCHB-1 is a potent agonist of the human cannabinoid 2 (CB2) receptor (EC₅₀ = 0.52 nM) that shows high selectivity for CB2 over CB1 (K_is = 3.7 and 110 nM, respectively). Similar benzimidazole compounds significantly reduce peripheral pain with reduced central nervous system side effects in mice.

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

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