
Product Data Sheet

Product Name: GBLD 345

Cat. No.: GC16495

Chemical Properties

Cas. No. 122479-08-7

Chemical Name (E)-4-(3-methoxy-6-((3-methoxybenzyl)imino)-5,6-dihydroimidazo[1,2-b]pyridazin-2-yl)aniline

SMILES COC1=CC=CC(C/N=C2C=CC3=NC(C4=CC=C(N)C=C4)=C(OC)N3N\2)=C1Formula $C_{21}H_{21}N_5O_2$ M.Wt 375.43

Solubility Soluble in ethanol or DMSO Storage Store at RT

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

GBLD 345 is a potent agonist of benzodiazepine receptor.

Benzodiazepine receptor is an allosteric modulatory site on GABAA receptor [1]. The GABAA receptor is a ligand-gated ion channel and activated by γ -aminobutyric acid (GABA). The GABAA receptor selectively permits Cl^- through its pore and results in hyperpolarization of the neuron, which causes an inhibitory effect on neurotransmission.

GBLD 345 is a potent benzodiazepine receptor agonist with IC_{50} value of 1 nM against diazepam.

Reference:

[1]. Sieghart W. Pharmacology of benzodiazepine receptors: an update. J Psychiatry Neurosci, 1994, 19(1): 24-29.

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

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