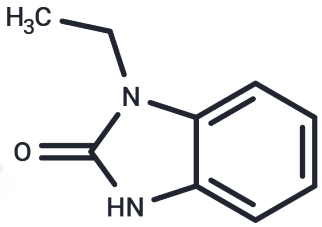
Data Sheet (Cat.No.T2604)

TargetMol

1-EBIO

Chemical Properties



CAS No. : 10045-45-1

Formula: C9H10N2O

Molecular Weight: 162.19

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	1-EBIO (1-EBIO) is a calium channel agonist.
Targets(IC50)	Calcium Channel,Potassium Channel
Kinase Assay	Procedures for BTK OMNIA Assay: The Omnia continuous read assay is performed essentially as described by the vendor. The assay conditions are: 40 μM ATP (1X KMATP), 10 μM Y5-Sox, and 10 nM BTK enzyme. Briefly, a substrate mix containing 1.13X ATP and the Y5 Sox substrate is first prepared in 1X Omnia Kinase Reaction Buffer (KRB) consisting of 20 mM Tris, pH 7.5, 5 mM MgCl2, 1 mM EGTA, 5 mM?β-glycerophosphate, 5% glycerol, and 0.2 mM DTT. For IC50 measurements, 5 μL of enzyme are incubated with serially diluted (3-fold) compounds prepared in 50% DMSO in a Corning (#3574) 384-well, white, non-binding surface microtiter plate at 25°C for 30 min. Kinase reactions are started with the addition of 45 μL of the ATP/Y5 substrate mix and monitored at λex360/λem485 in a Synergy 4 plate reader for 60 minutes. Progress curves from each well are examined for linear reaction kinetics and fit statistics. Initial velocity from each reaction is determined from the slope of a plot of relative fluorescence units versus time and then plotted against inhibitor concentration to estimate IC50 using the Response, Variable Slope model in GraphPad Prism from GraphPad Software.

Solubility Information

Solubility	DMSO: 60 mg/mL (369.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.33 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1656 mL	30.828 mL	61.6561 mL
5 mM	1.2331 mL	6.1656 mL	12.3312 mL
10 mM	0.6166 mL	3.0828 mL	6.1656 mL
50 mM	0.1233 mL	0.6166 mL	1.2331 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Walker SD, et al. Br J Pharmacol. 2001 Dec;134(7):1548-54.