Data Sheet (Cat.No.T1731)



TAME hydrochloride

Chemical Properties

CAS No.: 1784-03-8

Formula: C14H23ClN4O4S

Molecular Weight: 378.87

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

HCI NH HCI

Biological Description

Description	TAME by decable vide (Top. Avg. ONe UCI) is a kind and amine acid devivatives
Description	TAME hydrochloride (Tos-Arg-OMe HCl) is a kind od amino acid derivatives.
Targets(IC50)	Amino Acids and Derivatives,APC
Kinase Assay	This clonal cell line, referred to as HEK 293 4.0-7 cells, are used in a high-throughput screening format to detect agonists and allosteric activators of the Ca2+?receptor. Changes in the concentration of cytoplasmic [Ca2+]i provide a quantitative and functional assessment of Ca2+ receptor activity in these cells and the results using this assay parallel those obtained using a homologous expression system of bovine parathyroid cells. On-line continuous measurements of fluorescence in fluo-3- or fura-2-loaded HEK 293 4.0-7 cells are obtained using a custom-built spectrofluorimeter or a fluorescence imaging plate reader instrument. NPS-2143 is incubated with cells for 1 minute before increasing the concentration of extracellular Ca2+?from 1.0 mM to 1.75 mM. NPS-2143 is tested individually at a concentration of 100 μg/mL (20 μM-80 μM) and those causing more than a 40% inhibition of the control response are considered to be biologically active. To determine the potencies (IC50) of NPS-2143 with biological activity, concentration-response curves are obtained and then, as an initial assessment of selectivity, the effects of NPS-2143 on [Ca2+]i evoked by other G protein-coupled receptors are examined at a concentration several times their IC50. Wild-type HEK 293 cells (and HEK 293 4.0-7 cells) express receptors for thrombin, bradykinin, and ATP, which couple to the mobilization of intracellular Ca2+. These responses can be studied to quickly assess any nonselective action of compounds on G protein-coupled receptors. Additional assays for selectivity include HEK 293 cells engineered to express receptors most homologous in sequence and topology to the Ca2+ receptor. These include native or chimeric receptors for various metabotropic glutamate and γ-aminobutyric acid type B receptors (GABABRs). Chimeric receptors are created using partial sequences of metabotropic glutamate receptors and Ca2+?receptors, engineered to couple to activation of phospholipase C and release of intracellular Ca2+?in HEK 293 cells. NPS-2143 lac

Solubility Information

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A DRUG SCREENING EXPERT

Solubility	DMSO: 37.9 mg/mL(100 mM), (< 1 mg/ml refers to the product slightly soluble or
	insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6394 mL	13.1971 mL	26.3943 mL
5 mM	0.5279 mL	2.6394 mL	5.2789 mL
10 mM	0.2639 mL	1.3197 mL	2.6394 mL
50 mM	0.0528 mL	0.2639 mL	0.5279 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.

Reference

Ma Y, et al. Differential effects of Mg(ii) and N(alpha)-4-tosyl-l-arginine methyl ester hydrochloride on the recognition and catalysis in ATP hydrolysis. Dalton Trans. 2008 Feb 28;(8):1081-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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