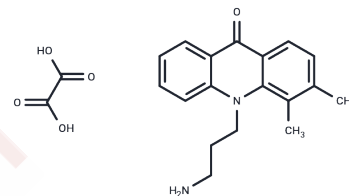


ER-27319

Chemical Properties

CAS No. : 201010-95-9
 Formula: C₂₀H₂₂N₂O₅
 Molecular Weight: 370.4
 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	ER-27319, an acridone derivative, serves as a potent and selective inhibitor of spleen tyrosine kinase (SYK), effectively impeding both the tyrosine phosphorylation and enzymatic activity of SYK. With an inhibitory concentration (IC ₅₀) of 10 μM, this compound suppresses the release of allergic mediators from human and rat mast cells triggered by antigens, making it useful for allergy research [1] [2].
Targets(IC ₅₀)	Syk
In vitro	ER-27319 (24 h) inhibits antigen-induced myo-inositol phosphate generation, arachidonic acid release, and histamine and tumor necrosis factor α secretion in RBL-2H3 cells, rat peritoneal, and human cultured mast cells, with an IC ₅₀ value of approximately 10 μM [1]. ER-27319 (10-30 μM, 10 min) selectively inhibits the tyrosine phosphorylation of SYK induced by immunoreceptor tyrosine activation motif upon FcεRI γ phosphorylation [1]. ER-27319 (up to 100 μM, 60 min) does not inhibit ZAP-70 tyrosine phosphorylation triggered by CD3 stimulation in Jurkat cells [1]. ER-27319 (100 μM, 10 min) suppresses the tyrosine phosphorylation of two proteins (38, 70 kD) and reduces the tyrosine phosphorylation of two other proteins (62, 80 kD) in canine cutaneous mastocytoma cells challenged with anti-IgG [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6998 mL	13.4989 mL	26.9978 mL
5 mM	0.540 mL	2.6998 mL	5.3996 mL
10 mM	0.270 mL	1.3499 mL	2.6998 mL
50 mM	0.054 mL	0.270 mL	0.540 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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