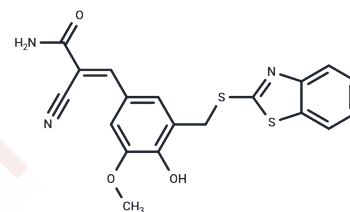


AG-825

Chemical Properties

CAS No. : 149092-50-2
 Formula: C₁₉H₁₅N₃O₃S₂
 Molecular Weight: 397.47
 Storage: Store at low temperature
 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	AG-825(Tyrphostin C15) is a selective and competitive ErbB2 inhibitor that inhibits tyrosine phosphorylation with an IC ₅₀ value of 0.35 μM. AG-825 (Tyrphostin C15) inhibits HER2 and shows anticancer activity in a mouse xenograft model of breast cancer. AG-825 (Tyrphostin C15) is a potentially active molecule for overcoming manganese-induced neurotoxicity or the development of Alzheimer's disease, and promotes apoptosis in human neutrophils, which could be used in the study of breast cancer.
Targets(IC ₅₀)	Apoptosis, EGFR, Adrenergic Receptor

Solubility Information

Solubility	DMSO: 200 mg/mL (503.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.3 mg/mL (8.3 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5159 mL	12.5796 mL	25.1591 mL
5 mM	0.5032 mL	2.5159 mL	5.0318 mL
10 mM	0.2516 mL	1.258 mL	2.5159 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

Wolfson E, et al. Nucleolin and ErbB2 inhibition reduces tumorigenicity of ErbB2-positive breast cancer. *Cell Death Dis.* 2018 Jan 19;9(2):47.

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Rahman A, et al. Inhibition of ErbB kinase signalling promotes resolution of neutrophilic inflammation. *Elife.* 2019 Oct 15;8. pii: e50990.

Ling J, et al. Identifying key genes, pathways and screening therapeutic agents for manganese-induced Alzheimer disease using bioinformatics analysis. *Medicine (Baltimore).* 2018 Jun;97(22):e10775.

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