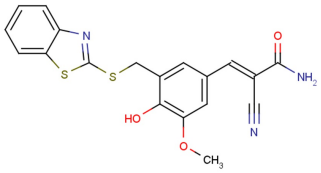
Data Sheet (Cat.No.T14138)

TargetMol
A DRUG SCREENING EXPERT

AG-825

Chemical Properties



CAS No.:	149092-50-2
Formula:	C19H15N3O3S2
Molecular Weight:	397.47
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	AG-825(Tyrphostin AG-825) is a potential agent for overcoming Mn-induced neurotoxicity or AD development[5] and is a selective and ATP-competitive ErbB2 inhibitor which suppresses tyrosine phosphorylation, with an IC50 of 0.35 μM. AG825 significantly accelerates apoptosis of human neutrophils[4]. AG-825 displays anti-cancer activity[1][2][3].
Targets(IC_{50})	ErbB2: 0.35 μM EGFR: 19 μM

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.516 mL	12.58 mL	25.159 mL
5 mM	0.503 mL	2.516 mL	5.032 mL
10 mM	0.252 mL	1.258 mL	2.516 mL
50 mM	0.05 mL	0.252 mL	0.503 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Wolfson E, et al. Nucleolin and ErbB2 inhibition reduces tumorigenicity of ErbB2-positive breast cancer. Cell Death Dis. 2018 Jan 19;9(2):47.
2. Gazit A, et al. Tyrphostins. 3. Structure-activity relationship studies of alpha-substituted benzylidenemalononitrile 5-S-aryltyrphostins. J Med Chem. 1993 Nov 12;36(23):3556-64.
3. He H, et al. Signal therapy for RAS-induced cancers in combination of AG 879 and PP1, specific inhibitors for ErbB2 and Src family kinases, that block PAK activation. Cancer J. 2001 May-Jun;7(3):191-202.
4. Rahman A, et al. Inhibition of ErbB kinase signalling promotes resolution of neutrophilic inflammation. Elife. 2019 Oct 15;8. pii: e50990.
5. 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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