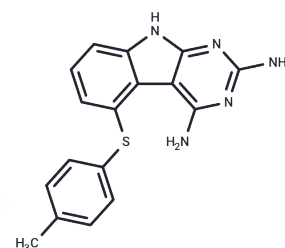


AG311

Chemical Properties

CAS No. : 1126602-42-3
 Formula: C17H15N5S
 Molecular Weight: 321.4
 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	AG311 is an inhibitor of complex I and hypoxia-induced HIF-1 α stabilization. In vitro, AG311 induces rapid necrosis in numerous cancer cell lines. Within minutes, exposure to AG311 also results in mitochondrial depolarization, superoxide production, and increased intracellular calcium levels.
Targets(IC50)	Others,Necroptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1114 mL	15.5569 mL	31.1139 mL
5 mM	0.6223 mL	3.1114 mL	6.2228 mL
10 mM	0.3111 mL	1.5557 mL	3.1114 mL
50 mM	0.0622 mL	0.3111 mL	0.6223 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

Bastian A, Matsuzaki S, Humphries KM, Pharaoh GA, Doshi A, Zaware N, Gangjee A, Ihnat MA. AG311, a small molecule inhibitor of complex I and hypoxia-induced HIF-1 α stabilization. *Cancer Lett.* 2017 Mar 1;388:149-157. doi: 10.1016/j.canlet.2016.11.040. Epub 2016 Dec 8. PubMed PMID: 27939695; PubMed Central PMCID: PMC5318233.

Bastian A, Thorpe JE, Disch BC, Bailey-Downs LC, Gangjee A, Devambatla RK, Henthorn J, Humphries KM, Vadvalkar SS, Ihnat MA. A small molecule with anticancer and antimetastatic activities induces rapid mitochondrial-associated necrosis in breast cancer. *J Pharmacol Exp Ther.* 2015 May;353(2):392-404. doi: 10.1124/jpet.114.220335. Epub 2015 Feb 26. Erratum in: *J Pharmacol Exp Ther.* 2017 Jan;360(1):225. PubMed PMID: 25720766; PubMed Central PMCID: PMC4407723.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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