

Product Name: ARRY-380 Revision Date: 01/10/2021

Product Data Sheet

ARRY-380

Cat. No.:	A8366
CAS No.:	937265-83-3
Formula:	C29H27N7O4S
M.Wt:	569.63
Synonyms:	ARRY380; ARRY 380
Target:	JAK/STAT Signaling
Pathway:	EGFR
Storage:	Store at -20°C
	319

Solvent & Solubility

	≥28.5 mg/mL in DM				
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	1.7555 mL	8.7776 mL	17.5553 mL
		5 mM	0.3511 mL	1.7555 mL	3.5111 mL
		10 mM	0.1756 mL	0.8778 mL	1.7555 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Tyrosine kinase HER2 and p95-HER2 inhibitor		
IC ₅₀ & Target	7 nM (p95-HER2), 8 nM (HER2), 4 μM (EGFR)		
	Cell Viability Assay		
In Vitro	Cell Line:	BT474 cells, NIH-3T3 cells	
	Preparation method:	Soluble in DMSO >28.5mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.	
	Reacting conditions:	N/A	
		1 www.apexbt.com	

	Applications:	ARRY-380 is an orally active, selective, small molecule inhibitor of
		ErbB2(human epidermal growth factor receptor-2). Its activity (IC50) against
		ErbB2 enzyme is 14 nM and it inhibits the phosphorylation of ErbB2 in BT474
		cells in culture with an IC 50 of 21 nM. ARRY-380 also potently inhibits
		phosphorylation of AKT(protein kinase B), induces apoptosis and inhibits
	al9	growth of BT474 cells in vitro. Marked tumor growth inhibition has been
	OFF	demonstrated in NIH-3T3 cells stably transfected with constitutively active
	Reference and an and and	ErbB2 kinase (3T3-rErbB2).
	Animal experiment	and the
In Vivo	Dosage form:	Dose-escalation cohorts(HER2+ cancer): A starting dose of 25 mg
		BID(twice-daily)was utilized with additional cohorts at planned dose levels of
		50, 100, 200, 300, 500, 650 and 800 mg dosing in a fed state in continuous
		28-day cycles (600mg BID was the MTD(maximum tolerated dose)) in Cycle
		1.expansion cohort(HER2+MBC): 600mg BID in continuous 28-day cycles in
	210	Cycle 2.
	Applications:	ARRY-380 had a lower incidence and severity of diarrhea and rash than that
	Construction of the second	typically associated with current dual HER2/EGFR (Epidermal Growth Factor
		Receptor) inhibitors and showed notable anti-tumor activity in heavily
		pretreated HER2+MBC patients, supporting its continued development.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
		slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.



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References



[1]. Pheneger, T., et al., In vitro and in vivo activity of ARRY-380: A potent, small molecule inhibitor of ErbB2. Presented at the American Association of Cancer Research 100th Annual Meeting Apr 18-22, 2009; Cancer Res 69 (abstr 1795).

[2]. Moulder SL1, Borges VF2, et al, Phase I Study of ONT-380, a HER2 Inhibitor, in Patients with HER2+-Advanced Solid Tumors, with an Expansion Cohort in HER2+ Metastatic Breast Cancer (MBC). Clin Cancer Res. 2017 Jul 15;23(14):3529-3536. doi: 10.1158/1078-0432.CCR-16-1496. Epub 2017 Jan 4.

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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