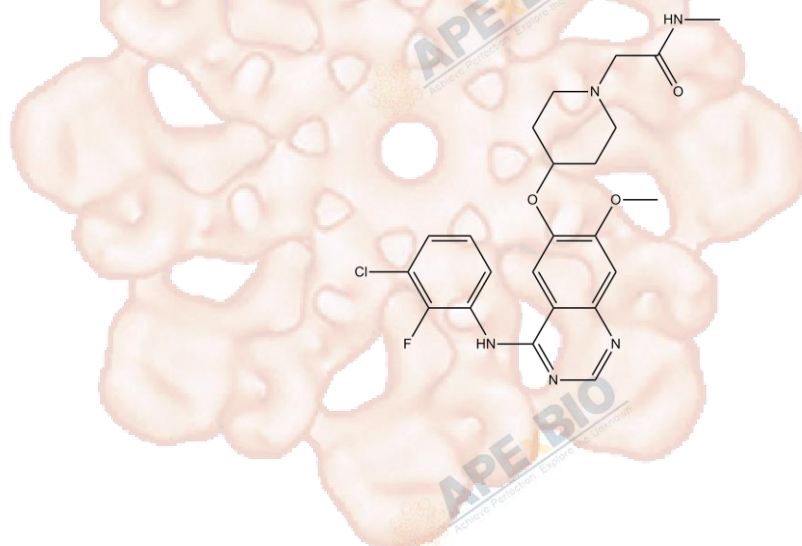


Product Data Sheet

AZD8931 (Sapitinib)

Cat. No.:	A8375
CAS No.:	848942-61-0
Formula:	C23H25ClFN5O3
M.Wt:	473.93
Synonyms:	
Target:	JAK/STAT Signaling
Pathway:	EGFR
Storage:	Store at -20°C



Solvent & Solubility

≥23.7 mg/mL in DMSO; insoluble in H₂O; ≥57.8 mg/mL in EtOH with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.1100 mL	10.5501 mL	21.1002 mL
	5 mM	0.4220 mL	2.1100 mL	4.2200 mL
	10 mM	0.2110 mL	1.0550 mL	2.1100 mL

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

Biological Activity

Shortsummary

ErbB inhibitor

IC₅₀ & Target

3 nM (ErbB2), 4 nM (EGFR), 4 nM (ErbB3)

In Vitro

Cell Viability Assay

Cell Line:	A panel of NSCLC and SCCHN cell lines, MCF-7 cells, KB cells
Preparation method:	The solubility of this compound in DMSO is >23.7mg/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:	96 h

	Applications:	AZD8931 showed great inhibition of ligand-stimulated EGFR phosphorylation in KB cells. AZD8931 also inhibited erbB2- and erbB3-mediated signaling in parental MCF-7 cells and in MCF-7 cl24 cells. AZD8931 showed a distinct pattern of tumor cell growth inhibition in NSCLC and head and neck squamous cell carcinoma cell panels.
In Vivo	Animal experiment	
	Animal models:	BT474c (breast), Calu-3 (NSCLC), LoVo (colorectal), FaDu (SCCHN), and PC-9 (NSCLC) tumor xenograft mouse model
	Dosage form:	oral gavage, 6.25-50 mg/kg, twice daily (bid)
	Applications:	AZD8931 inhibited the growth of EGFR-sensitive and erbB2-sensitive human tumor xenograft models. AZD8931 led to pharmacodynamic changes in proliferation and apoptosis markers in human tumor xenograft models.
	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.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Mu Z, Klinowska T, Dong X, et al. AZD8931, an equipotent, reversible inhibitor of signaling by epidermal growth factor receptor (EGFR), HER2, and HER3: preclinical activity in HER2 non-amplified inflammatory breast cancer models[J]. Journal of Experimental & Clinical Cancer Research, 2014, 33(1): 47.

Caution

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. Short-term 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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