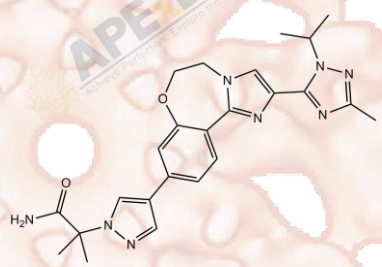
Product Data Sheet

GDC-0032

Cat. No.:	B1047
CAS No.:	1282512-48-4
Formula:	C24H28N8O2
M.Wt:	460.53
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	PI3K
Storage:	Store at -20°C



Solvent & Solubility

In Vitro

≥23.05 mg/mL in DMSO; insoluble in H2O; ≥2.79 mg/mL in EtOH with gentle warming

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.1714 mL	10.8571 mL	21.7141 mL
5 mM	0.4343 mL	2.1714 mL	4.3428 mL
10 mM	0.2171 mL	1.0857 mL	2.1714 mL

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

Biological Activity

Shortsummary	PI3Kα inhibitor
IC_{50} & Target	0.12 nM (PI3Kδ), 0.29 nM (PI3Kα), 0.97nM (PI3Kγ)

In Vitro

Cell Viability Assay

Cell Line:	MCF7-neo/HER2 cells
Preparation method:	This compound is soluble in DMSO. 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:	2.5 nM

	Applications:	In MCF7-neo/HER2 cells, GDC-0032 inhibited cell proliferation with an IC50 value of 2.5 nM.
In Vivo	**Animal experiment**	
	Animal models:	MCF7-neo/Her2 xenograft model
	Dosage form:	1.4, 2.8, 5.8, 11.25 or 22.5 mg/kg; p.o.; q.d., for 20 days
	Applications:	GDC-0032 dose-dependently increased TGI and tumor regressions. In addition, GDC-0032 was well-tolerated with less than 10% body weight loss observed when compared with the vehicle group.
	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]. Ndubaku CO1, Heffron TP, Staben ST, Baumgardner M, Blaquiere N, Bradley E, Bull R, Do S, Dotson J, Dudley D, Edgar KA, Friedman LS, Goldsmith R, Heald RA, Kolesnikov A, Lee L, Lewis C, Nannini M, Nonomiya J, Pang J, Price S, Prior WW, Salphati L, Sideris S, Wallin JJ, Wang L, Wei B, Sampath D, Olivero AG. Discovery of 2-{3-[2-(1-isopropyl-3-methyl-1H-1,2-4-triazol-5-yl)-5,6-dihydrobenzo[f]imidazo[1,2-d][1,4]oxazepin-9-yl]-1H-pyrazol-1-yl}-2-methylpropanamide (GDC-0032): a β-sparing phosphoinositide 3-kinase inhibitor with high unbound exposure and robust in vivo antitumor activity. J Med Chem. 2013 Jun 13;56(11):4597-610.

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. 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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