

Product Name: GDC-0941 dimethanesulfonate Revision Date: 01/10/2020

Product Data Sheet

GDC-0941 dimethanesulfonate

Cat. No.: A3432

CAS No.: 957054-33-0

Formula: C25H35N7O9S4

M.Wt: 705.85

Synonyms: GDC-0941 (2 MeSO3H salt);GDC0941

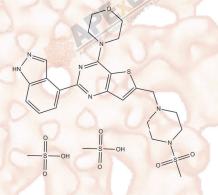
dimethanesulfonate;GDC-0941;GDC0941;GD

C 0941

Target: PI3K/Akt/mTOR Signaling

Pathway: PI3K

Storage: Store at -20°C



Solvent & Solubility

≥207.6 mg/mL in DMSO,insoluble in EtOH,insoluble in H2O

In Vitro

Preparing	Solvent Concentration	1mg	5mg	10mg
Stock Solutions	1 mM	1.4167 mL	7.0837 mL	14.1673 mL
Te Univour	5 mM	0.2833 mL	1.4 <mark>1</mark> 67 mL	2.8335 mL
Region Espace w	10 mM	0.1417 mL	0.7084 mL	1.4167 mL

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

Biological Activity

Shortsummary	PI3K inhibitor	PI3K inhibitor			
IC ₅₀ & Target	15 nM (Pl3Kα), 185 nM (P	15 nM (Pl3Kα), 185 nM (Pl3Kβ), 7 nM (Pl3Kδ), 224 nM (Pl3Kγ)			
	Cell Viability Assay	and a contraction.			
In Vitro	Cell Line:	MDA-MB-231 and SKBR3 cells			
	Preparation method:	The solubility of this compound in DMSO is >10 mM. 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.			

MDA-MB-231 cells 1.25 μM for SKBR3 cells 72 hours	Reacting conditions:			
exicity was determined using MTT assay after 72 h av	Reacting conditions: 10 µM for MDA-MB-231 cells			
toxicity was determined using MTT assay, after 72 h ex	Applications:			
1, ABT-737 and the combination. 10-times greater conce				
as a single agent resulted in a less than 50% increase in c				
ss of the sensitivity to single agents, the combination of				
-737 induced a more significant reduction of viable cells,	219			
nergistic effect of GDC-0941 and ABT-737.	E Labor the diff			
A Contract of the Contract of	Animal experiment			
severe combined immunodeficient mice injected with brea	Animal models:			
inistration, 100 or 150 mg/kg	Dosage form: Ora			
1 showed excellent antitumor activity in xenograft models	Applications: GDC-			
tion, PIK3CA mutations, or concomitant alterations in two				
nts (e.g., PTEN loss and PIK3CA mutation), but little or n				
s of basal-like KRAS mutant MDA-MB-231 cells. Treat		n Vivo		
1 at a dose of 100 mg/kg substantially down-regulated	PERMINDE			
73) in xenograft tumors of both sensitive KPL-4 cells and				
-231 cells after 1 hour, suggesting effective pharmac				
of PI3K signaling at this dose in both models.				
st the solubility of all compounds indoor, and the actual solu	Other notes:	(
iffer with the theoretical value. This is caused by an ex				
rror and it is normal.				
inistration, 100 or 150 mg/kg 1 showed excellent antitumor activity in xenograft models with the solubility of all compounds indoor, and the actual solution in the solubility of all compounds indoor, and the actual solutifier with the theoretical value. This is caused by an experiment of the solubility of all compounds indoor, and the actual solutifier with the theoretical value. This is caused by an experiment of the solubility of all compounds indoor, and the actual solutifier with the theoretical value. This is caused by an experiment of the solution of the soluti	Animal models: Dosage form: Applications:			

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Zheng L, Yang W, Zhang C, et al. GDC-0941 sensitizes breast cancer to ABT-737 in vitro and in vivo through promoting the degradation of Mcl-1. Cancer letters, 2011, 309(1): 27-36.

[2] O'Brien C, Wallin J J, Sampath D, et al. Predictive biomarkers of sensitivity to the phosphatidylinositol 3' kinase inhibitor GDC-0941 in breast cancer preclinical models. Clinical Cancer Research, 2010, 16(14): 3670-3683.

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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