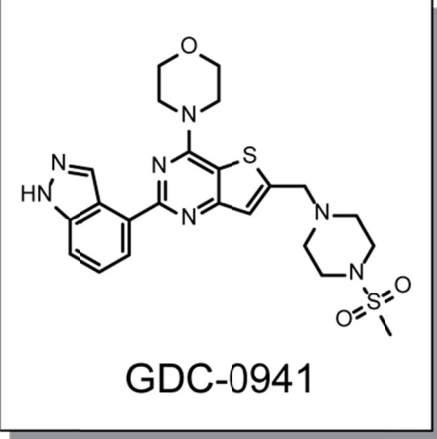




Product Specification Sheet

Product Name:	GDC-0941	 <p>GDC-0941</p>
Catalog Number:	C4321-5 (powder) C4321-5s (10mM in DMSO)	
Package Size:	5 mg	
Technical information:		
Chemical Formula:	C ₂₃ H ₂₇ N ₇ O ₃ S ₂	
CAS #:	957054-30-7	
Molecular Weight:	513.64	
Purity:	>98%	
Formulation:	White solid	
Solubility:	Soluble in DMSO up to 100 mM	
Chemical Name:	4-(2-(1H-indazol-4-yl)-6-((4-(methylsulfonyl)piperazin-1-yl)methyl)thieno[3,2-d]pyrimidin-4-yl)morpholine	
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.	
Handling:	<ul style="list-style-type: none">For C4321-5 (powder), add 973 µL of DMSO to make 10 mM solution.For C4321-5s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full sample recovery.	
Biological Activity:	GDC-0941 is a highly potent and selective class I PI3K kinase inhibitor under development. Its IC ₅₀ values for for PI3K p110 α, β, δ and γ isoforms are 3nM, 33nM, 3nM, 75nM, and for DNA-PK and mTOR are 1230nM and 580nM. It is now in phase I clinical trials targeting several advanced or metastatic solid tumors.	
Reference:	<ol style="list-style-type: none">AJ Folkes et al. The identification of 2-(1H-indazol-4-yl)-6-(4-methanesulfonyl-piperazin-1-ylmethyl)-4-morpholin-4-yl-thieno[3,2-d]pyrimidine (GDC-0941) as a potent, selective, orally bioavailable inhibitor of class I PI3 kinase for the treatment of cancer. J. Med. Chem. 2008, 51(18), 5522-32.FI Raynaud et al. Biological properties of potent inhibitors of class I phosphatidylinositol 3-kinases: from PI-103 through PI-540, PI-620 to the oral agent GDC-0941. Mol. Cancer Ther. 2009, 8(7), 1725-38.Zheng L, et al. GDC-0941 sensitizes breast cancer to ABT-737 in vitro and in vivo through promoting the degradation of Mcl-1. Cancer Lett. 2011;309(1):27-36.	

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