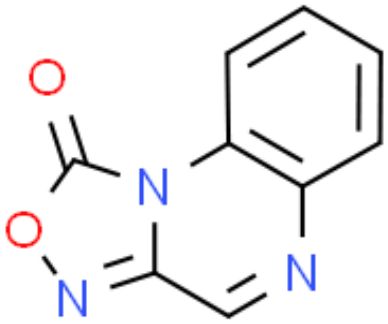
Product Data Sheet

Cas No.:	41443-28-1	Cat. No:	PC15167
Product Name:	ODQ		
Product synonym:	1H-[1,2,4]恶二唑并[4,3-a]喹恶啉-1-酮;1H-[1,2,4]恶草灵并[4,3-A]喹喔啉-1-酮;1H-[1,2,4]恶二唑并[4,3-a]喹喔啉-1-酮;1H-[1,2,4]Oxadiazolo[4,3-a]quinoxalin-1-one 1H-[1,2,4]恶二唑并[4,3-a]喹恶啉-1-酮;1H-[1,2,4]恶草灵并[4,3-a]喹喔啉-1-酮[ODQ]		
Chemical name:	ODQ		
MF:	C9H5N3O2	FW:	187.1549
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O1C(N2C(C([H])=NC3=C([H])C([H])=C([H])C([H])=C23)=N1)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

可溶性鸟苷酸环化酶（sGC）抑制剂，41443-28-1

生物活性	ODQ is a potent and selective **soluble guanylyl cyclase** (sGC, nitric oxide-activated enzyme) inhibitor. ODQ enhances the pro-apoptotic effects of Cisplatin in human mesothelioma cells.
体外研究(In Vitro)	At 30 and 50 μM, ODQ causes significant induction of apoptosis in the NCI-H2452 cells, elevating apoptotic levels by 12 fold and 15 fold, respectively. At 10μM, a concentration below the threshold for induction of apoptosis by ODQ, ODQ in combination with Cisplatin enhanced (in fact, doubled) the pro-apoptotic effects of Cisplatin at 1 μM. **Medlife has not independently confirmed the accuracy of these methods. They are for reference only.**

<table>
<tr><td>体内研究(In Vivo)</td><td>ODQ (2 mg/kg; i.p.) reduces the multiple organ injury and dysfunction caused by wall fragments of Gram-positive or Gram-negative bacteria in the anesthetized rat.

Medlife has not independently confirmed the accuracy of these methods. They are for reference only.
<table><tr><td>Animal Model:</td><td>Anesthetized, male Wistar rats</td></tr><tr><td>Dosage:</td><td>2 mg/kg</td></tr><tr><td>Administration:</td><td>I.p.</td></tr><tr><td>Result:</td><td>Attenuated the renal dysfunction, lung injury, and hepatocellular injury caused by lipoteichoic acid/peptidoglyc</td></tr></table></td></tr>
<tr><td>包装储存</td><td><table><tr><td>Powder</td><td>-20°C</td><td>3 years</td></tr><tr><td></td><td>4°C</td><td>2 years</td></tr><tr><td>In solvent</td><td>-80°C</td><td>6 months</td></tr><tr><td></td><td>-20°C</td><td>1 month</td></tr></table></td></tr>
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溶解度数据

体外研究:

DMSO : 100 mg/mL (534.33 mM; Need ultrasonic)

配制储备溶液	溶剂体积 / 质量 / 浓度	1 mg	5 mg	10 mg
	1 mM	5.3433 mL	26.7165 mL	53.4331 mL
	5 mM	1.0687 mL	5.3433 mL	10.6866 mL
	10 mM	0.5343 mL	2.6717 mL	5.3433 mL

* 产品不同，其溶解度不同。建议根据产品选择合适的溶剂配制储备溶液；配成溶液后，**建议分装保存，避免反复冻融造成的产品失效**。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，建议在 6 个月内使用，-20°C 储存时，建议在 1 个月内使用。

体内研究:

建议根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都建议先按照 **体外研究** 方式配制澄清的储备液，再依次添加助溶剂：

——为保证实验结果的可靠性，**澄清的储备液可以根据储存条件，适当保存**；体内实验的工作液，**建议您现用现配，当天使用**； 以下溶剂前显示的百分比是指**该溶剂在您配制终溶液中的体积占比**；如在配制过程中出现沉淀、析出现象，可以通过**加热和/或超声的方式助溶**

1. 建议依照次序添加每种溶剂： 10% DMSO 90% corn oil

   Solubility: ≥ 5 mg/mL (26.72 mM); Clear solution

   此方案可获得 ≥ 5 mg/mL (26.72 mM，饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。

   以 1 mL 工作液为例，取 100 μL 50.0 mg/mL 的澄清 DMSO 储备液加到 900 μL玉米油中，混合均匀。

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