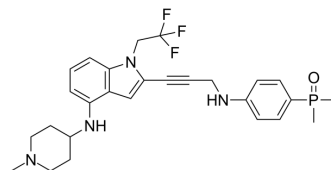


## p53 Activator 7

<b>Cat. No.:</b>	HY-148416
<b>CAS No.:</b>	2849340-59-4
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>32</sub> F <sub>3</sub> N <sub>4</sub> OP
<b>Molecular Weight:</b>	516.54
<b>Target:</b>	MDM-2/p53
<b>Pathway:</b>	Apoptosis
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (193.60 mM; Need ultrasonic)																				
<b>Preparing Stock Solutions</b>	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.9360 mL</td> <td>9.6798 mL</td> <td>19.3596 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3872 mL</td> <td>1.9360 mL</td> <td>3.8719 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1936 mL</td> <td>0.9680 mL</td> <td>1.9360 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	1 mM	1.9360 mL	9.6798 mL	19.3596 mL	5 mM	0.3872 mL	1.9360 mL	3.8719 mL	10 mM	0.1936 mL	0.9680 mL	1.9360 mL
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Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution</li> </ol>																				

### BIOLOGICAL ACTIVITY

<b>Description</b>	p53 Activator 7 is a p53 mutation Y220C (MDM-2/p53) activator with an EC <sub>50</sub> of 104 nM. p53 Activator 7 can bind to p53 mutant and restore its ability to bind DNA (WO2022213975A1; Example B-1) <sup>[1]</sup> . p53 Activator 7 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
<b>IC<sub>50</sub> &amp; Target</b>	EC <sub>50</sub> : 104 nM (p53 mutation Y220C) <sup>[1]</sup>
<b>In Vitro</b>	The p53 protein, referred to as the “guardian of the human genome”, is a tetrameric transcription factor that prevents mutation to the genome by regulating the expression of a subgroup of target genes. Although biologically active as a homotetramer, each p53 monomer is comprised of 393 amino acids, and is divided into five key regulatory domains: the transactivation domain (TAD), proline-rich region (PR), the DNA binding domain (DBD), the oligomerization domain (OD),

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and the C-terminus<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Sujing LI, et al. Compounds targeting y220c mutant of p53. WO2022213975A1.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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