## BYK204165

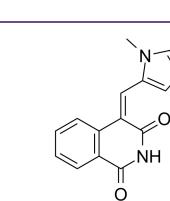
Cat. No.:	HY-108632		
CAS No.:	1104546-89-5		
Molecular Formula:	C <sub>15</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>		
Molecular Weight:	252.27		
Target:	PARP		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9640 mL	19.8200 mL	39.6401 mL	
	5 mM	0.7928 mL	3.9640 mL	7.9280 mL	
	10 mM	0.3964 mL	1.9820 mL	3.9640 mL	

BIOLOGICAL ACTIVITY				
Description	BYK204165 is a potent and selective PARP1 inhibitor. BYK204165 inhibits cell-free recombinant human PARP-1 (hPARP-1) with a pIC <sub>50</sub> of 7.35 (pK <sub>i</sub> =7.05), and murine PARP-2 (mPARP-2) with a pIC <sub>50</sub> of 5.38, respectively. BYK204165 displays 100-fold selectivity for PARP-1 <sup>[1]</sup> .			
IC <sub>so</sub> & Target	hPARP-1 7.35 (pIC <sub>50</sub> )	mPARP-2 5.38 (pIC <sub>50</sub> )		
In Vitro	In kinetic experiments with human PARP-1, BYK204165 exhibits potent and competitive inhibition of enzyme activity, yielding a pK <sub>i</sub> value of 7.05 <sup>[1]</sup> . BYK204165 exhibits low potency of PARP inhibition in C4I cells (pIC <sub>50</sub> of 5.75) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	BYK204165 is not investigated in vivo because of its short half-time ( $t_{1/2}$ ) of 23 min measured at rat microsomes in vitro <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet





### REFERENCES

[1]. Eltze T, et al. Imidazoquinolinone, imidazopyridine, and isoquinolindione derivatives as novel and potent inhibitors of the poly(ADP-ribose) polymerase (PARP): a comparison with standard PARP inhibitors. Mol Pharmacol. 2008 Dec;74(6):1587-98.

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

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