## CYP1B1-IN-4

Cat. No.:	HY-152118		
CAS No.:	2685779-55	-7	
Molecular Formula:	C <sub>18</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S	5	
Molecular Weight:	322.38		
Target:	Cytochrom	e P450	
Pathway:	Metabolic E	Enzyme/F	Protease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Pr	eparing ock Solutions	1 mM	3.1019 mL	15.5096 mL	31.0193 mL
	5 mM	0.6204 mL	3.1019 mL	6.2039 mL	
		10 mM	0.3102 mL	1.5510 mL	3.1019 mL

	VIIV		
DIOLOGICALACTIV			
Description	CYP1B1-IN-4 is a 2,4-diarylthia cytotoxicity and high stability	azole compound v in both human ar	vith selectively CYP1B1 inhibition (IC <sub>50</sub> =0.2 nM). CYP1B1-IN-4 has little nd rat liver microsomes <sup>[1]</sup> .
IC <sub>50</sub> & Target	CYP1B1 0.2 nM (IC <sub>50</sub> )	CYP1A1 3.98 μΜ (IC <sub>50</sub> )	
In Vitro	CYP1B1-IN-4 (compound 15) ( has low stability in mouse live CYP1B1-IN-4 (1 nM-10 μM) also CYP1B1-IN-4 (200 μM; 72 h) pa Stability Parameters in Huma	100 µM; 37 ⊠; 0-60 r microsomes <sup>[1]</sup> . o inhibits CYP1A1 rental HEK T-REx n, Rat, or Mouse L	) min) has in vitro stability in both human and rat liver microsomes, while it with an IC <sub>50</sub> value of 3.82 $\mu$ M <sup>[1]</sup> . cell line , and (100 $\mu$ M; 72 h) has little cytotoxicity in HEK293 cells <sup>[1]</sup> . iver Microsomes <sup>[1]</sup>
	Parameters	T <sub>1/2</sub> (min)	$CL_{int(mic)} (\mu L/min/mg) CL_{int(liver)} (mL/min/kg) % remaining_{T=60 min}$

# Product Data Sheet

≡N

Human	28.3	49.0	44.1	19.0
Rat	36.6	37.9	68.2	27.1
Mouse	2.5	545.9	2161.9	0.2
MCE has not indepe	ndently confirmed the accura	cy of these methods. The	y are for reference only.	

### REFERENCES

[1]. Hachey AC, et al. Design of Cytochrome P450 1B1 Inhibitors via a Scaffold-Hopping Approach. J Med Chem. 2022 Dec 15.

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

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