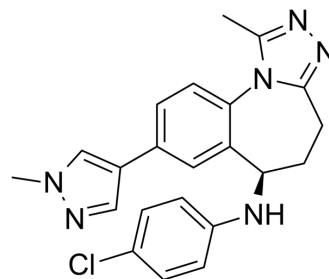


## BY27

<b>Cat. No.:</b>	HY-126325
<b>CAS No.:</b>	2247236-59-3
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>21</sub> ClN <sub>6</sub>
<b>Molecular Weight:</b>	404.9
<b>Target:</b>	Epigenetic Reader Domain
<b>Pathway:</b>	Epigenetics
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	BY27 is a potent and selective BET BD2 inhibitor, shows 38, 5, 7, and 21-fold BD1/BD2 selectivity for BRD2, BRD3, BRD4, and BRDT. Anti-cancer activity <sup>[1]</sup> .			
IC <sub>50</sub> & Target	BRD2 BD2 3.1 nM (Ki)	BRD2 BD1 95.5 nM (Ki)	BRD3 BD2 5.3 nM (Ki)	BRD3 BD1 77.9 nM (Ki)
	BRD4 BD2 7.3 nM (Ki)	BRD4 BD1 80 nM (Ki)	BRD2 BD2 1.2 nM (Kd)	BRD2 BD1 45 nM (Kd)
	BRD3 BD2 2.6 nM (Kd)	BRD3 BD1 12 nM (Kd)	BRD4 BD2 3.5 nM (Kd)	BRD4 BD1 26 nM (Kd)
	BRDT BD2 3 nM (Kd)	BRDT BD1 64 nM (Kd)		

## REFERENCES

[1]. Chen D, et al. Discovery, structural insight, and bioactivities of BY27 as a selective inhibitor of the second bromodomains of BET proteins. *Eur J Med Chem.* 2019 Aug 21;182:111633.

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

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