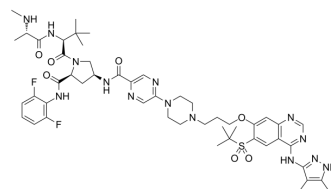


## RIP2 Kinase Inhibitor 4

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-136010                                                                                 |
| CAS No.:           | 2126803-41-4                                                                              |
| Molecular Formula: | C <sub>50</sub> H <sub>66</sub> F <sub>2</sub> N <sub>14</sub> O <sub>7</sub> S           |
| Molecular Weight:  | 1045.21                                                                                   |
| Target:            | RIP kinase; PROTACs                                                                       |
| Pathway:           | Apoptosis; PROTAC                                                                         |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Description</b>                  | RIP2 Kinase Inhibitor 4 is a potent and selective RIPK2 PROTAC. RIP2 Kinase Inhibitor 4 effectively degrades RIPK2 (pIC <sub>50</sub> of 8) and inhibits the release of related TNF-α <sup>[1]</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |
| <b>IC<sub>50</sub> &amp; Target</b> | cIAP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RIPK2<br>8 (pIC <sub>50</sub> ) |
| <b>In Vitro</b>                     | <p>RIP2 Kinase Inhibitor 4 (Compound 20) utilizes a novel inhibitor of apoptosis (IAP) binder. RIP2 Kinase Inhibitor 4 possess comparatively reduced binding potency at both cIAP1 and XIAP BIR3 domains and increased potency at the XIAP BIR2 domain<sup>[1]</sup>.</p> <p>RIP2 Kinase Inhibitor 4 (Compound 20) recruits the IAP E3 ligases and shows markedly reduced inhibition of muramyl dipeptide (MDP)-stimulated TNFα production in human peripheral blood mononuclear cells (PBMCs) (pIC<sub>50</sub> of 9.3)<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |                                 |
| <b>In Vivo</b>                      | <p>The initial in vivo assessment of RIP2 Kinase Inhibitor 4 (Compound 20) in rats dosed at 0.5 mg/kg SC demonstrated high levels of RIPK2 degradation and inhibition of MDP-stimulated TNFα release at the final 48 h time point<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>                                                                                                                                                                                                                                                                                        |                                 |

### REFERENCES

[1]. Afjal H Miah, et al. Optimization of a Series of RIPK2 PROTACs. J Med Chem. 2021 Sep 9;64(17):12978-13003.

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

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