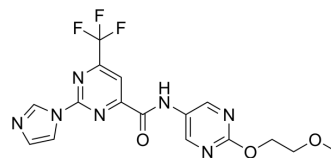


## CD38 inhibitor 3

Cat. No.:	HY-156120
CAS No.:	2857868-82-5
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> F <sub>3</sub> N <sub>7</sub> O <sub>3</sub>
Molecular Weight:	409.32
Target:	CD38
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	CD38 inhibitor 3 (compound 1) is a potent CD38 inhibitor (IC <sub>50</sub> =11 nM). CD38 inhibitor 3 can promote mitochondrial biogenesis, reduce lactate levels, and increase NAD <sup>+</sup> content and Nrf2 expression. In a model of mitochondrial myopathy, CD38 inhibitor 3 increases muscle contraction/development and improves exercise tolerance in PUS1 <sup>-/-</sup> mice <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 11 nM (CD38) <sup>[1]</sup>

### REFERENCES

[1]. Li Y, et al. Discovery of a First-in-Class CD38 Inhibitor for the Treatment of Mitochondrial Myopathy. J Med Chem. 2023 Sep 11...

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

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