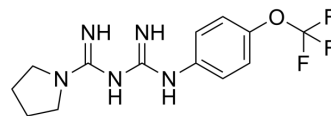


## Lixumistat

Cat. No.:	HY-136093B
CAS No.:	1422365-93-2
Molecular Formula:	C <sub>13</sub> H <sub>16</sub> F <sub>3</sub> N <sub>5</sub> O
Molecular Weight:	315.29
Target:	Mitochondrial Metabolism
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Lixumistat (IM156) is a novel biguanide mitochondrial protein complex 1 inhibitor of oxidative phosphorylation (OXPHOS) with anti-tumor activity. Lixumistat regulates OXPHOS to attenuate mitochondrial metabolic reprogramming and inhibit lung fibrosis. Lixumistat also suppresses B-cell activation to alleviate systemic lupus erythematosus<sup>[1][5]</sup>.

### REFERENCES

- [1]. Willette RN, et al. Modulation of Oxidative Phosphorylation with IM156 Attenuates Mitochondrial Metabolic Reprogramming and Inhibits Pulmonary Fibrosis. *J Pharmacol Exp Ther.* 2021 Nov;379(3):290-300.
- [2]. Shim JS, et al. The oxidative phosphorylation inhibitor IM156 suppresses B-cell activation by regulating mitochondrial membrane potential and contributes to the mitigation of systemic lupus erythematosus. *Kidney Int.* 2023 Feb;103(2):343-356.

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

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