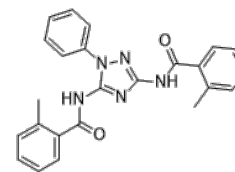


Product Name : FB231
Cat. No. : PC-26546
CAS No. : 2166045-37-8
Molecular Formula : C₂₄H₂₁N₅O₂
Molecular Weight : 411.47
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



CAS: 2166045-37-8

Biological Activity

FB231 is a small molecule enhancer / activator of **Parkin** E3 ubiquitin ligase (**PARK2**) activity with EC₅₀ of 6.75 μ M in in vitro ubiquitination assay.

FB231 potently activates the PINK1/Parkin pathway in combination with mitochondrial toxins.

FB231 could accentuate PINK1/Parkin mitophagy in cells exposed to low levels of mitochondrial toxins.

FB231 induces mild mitochondrial stress, resulting in impaired mitochondrial function and activation of the integrated stress response, effects that result from PINK1/Parkin-independent off-target activities.

References

Gong Y, et al. *bioRxiv* [Preprint]. 2026 Apr 4:2026.04.01.715918.

William M Rosencrans, et al. *Sci Adv*. 2025 Aug 29;11(35):eady0240.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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