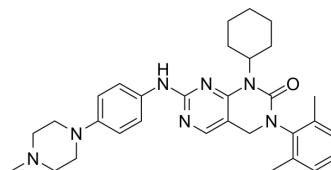


YKL-06-062

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-129141 | | |
| CAS No.: | 2172617-16-0 | | |
| Molecular Formula: | C ₃₁ H ₃₉ N ₇ O | | |
| Molecular Weight: | 525.69 | | |
| Target: | Salt-inducible Kinase (SIK) | | |
| Pathway: | Immunology/Inflammation | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (47.56 mM; Need ultrasonic)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|-----------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 1.9023 mL | 9.5113 mL | 19.0226 mL |
| | 5 mM | 0.3805 mL | 1.9023 mL | 3.8045 mL |
| | 10 mM | 0.1902 mL | 0.9511 mL | 1.9023 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

YKL-06-062 is a second-generation salt-inducible kinase (SIK) inhibitor with an IC₅₀ of 2.12 nM/1.40 nM/2.86 nM for SIK1, SIK2 and SIK3, respectively^[1].

In Vitro

YKL 06-062 (0.0004-16 μM; 3 hours) increases MITF mRNA expression in a dose-dependent manner^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

RT-PCR^[1]

| | |
|------------------|---|
| Cell Line: | Human melanocyte cells, UACC62 melanoma cells |
| Concentration: | 0.0004 μM, 0.004 μM, 0.04 μM, 0.4 μM, 4 μM, 8 μM, 16 μM |
| Incubation Time: | 3 hours |
| Result: | Unregulated MITF mRNA expression. |

REFERENCES

[1]. Mujahid N, et al. A UV-Independent Topical Small-Molecule Approach for Melanin Production in Human Skin. Cell Rep. 2017 Jun 13;19(11):2177-2184.

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

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