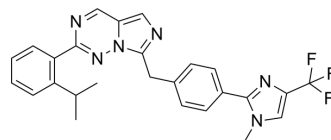


USP1-IN-4

| | |
|--------------------|---|
| Cat. No.: | HY-153731 |
| CAS No.: | 2878441-72-4 |
| Molecular Formula: | C ₂₆ H ₂₃ F ₃ N ₆ |
| Molecular Weight: | 476.5 |
| Target: | Deubiquitinase |
| Pathway: | Cell Cycle/DNA Damage |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | | |
|-------------------------------------|---|--|------------|------------|----------------|--------------|------------------|--------|---------|--|
| Description | USP1-IN-4 (compound 10) is an effective USP1 inhibitor with an IC ₅₀ value of 2.44 nM. USP1-IN-4 has anticancer activity and synergistic activity with various anticancer drugs ^[1] . | | | | | | | | | |
| IC₅₀ & Target | USP1 2.44 nM (IC ₅₀) | | | | | | | | | |
| In Vitro | <p>USP1-IN-4 (0.0005-10 μM, 15 min) inhibits USP1/UAF1 significantly with an IC₅₀ value of 2.44 nM^[1].</p> <p>USP1-IN-4 (0.0005-10 μM, 7 days) inhibits the growth of MDA-MB-436 significantly with an IC₅₀ value of 103.75 nM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-436</td> </tr> <tr> <td>Concentration:</td> <td>0.0005-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>7 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth with an IC₅₀ of 103.75 nM.</td> </tr> </table> | | Cell Line: | MDA-MB-436 | Concentration: | 0.0005-10 μM | Incubation Time: | 7 days | Result: | Inhibited cell growth with an IC ₅₀ of 103.75 nM. |
| Cell Line: | MDA-MB-436 | | | | | | | | | |
| Concentration: | 0.0005-10 μM | | | | | | | | | |
| Incubation Time: | 7 days | | | | | | | | | |
| Result: | Inhibited cell growth with an IC ₅₀ of 103.75 nM. | | | | | | | | | |

REFERENCES

[1]. Cai S, et al. Nitrogen-containing fused heteroaromatic bicyclic compounds as USP1 inhibitors and the use thereof. China,WO 2022/253188 A.2022-8-12.

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

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