SZABO SCANDIC

Part of Europa Biosite

# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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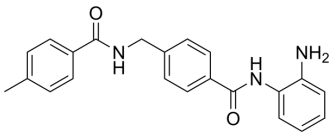
# HDAC-IN-72

| | |
|---|---|
| **Cat. No.:** | HY-162487 |
| **CAS No.:** | 763066-77-9 |
| **Molecular Formula:** | $C_{22}H_{21}N_3O_2$ |
| **Molecular Weight:** | 359.42 |
| **Target:** | HDAC |
| **Pathway:** | Cell Cycle/DNA Damage; Epigenetics |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

| | | | |
|---|---|---|---|
| **Description** | HDAC-IN-72 (compound 7j) is the most potent HDAC1($IC_{50}$=0.65 ± 0.07 μM), HDAC2($IC_{50}$=0.78 ± 0.02 μM), HDAC3($IC_{50}$=1.70 ± 0.1 μM) inhibitor and antiproliferative compound. HDAC-IN-72 can be used for breast cancer research[1]. | | |
| **$IC_{50}$ & Target** | HDAC1<br>0.65 μM ($IC_{50}$) | HDAC2<br>0.78 μM ($IC_{50}$) | HDAC3<br>1.70 μM ($IC_{50}$) |
| **In Vitro** | HDAC-IN-72 (0.1-50 μM, 48 h) shows good anti-proliferative activity against MCF-7 ($IC_{50}$=0.83 ± 1.41 μM) and T47D ($IC_{50}$=1.4 ± 1.85 μM) cell lines[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |

## REFERENCES

[1]. Cheshmazar N, et al. Key structural requirements of benzamide derivatives for histone deacetylase inhibition: design, synthesis and biological evaluation[J]. Future Medicinal Chemistry, 2024 (0).



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