



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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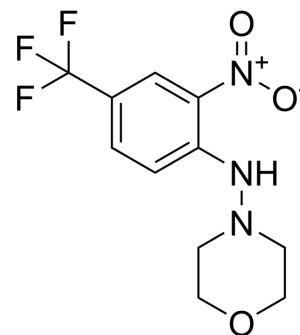
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THS-044

| | | | |
|---------------------------|--|-------|---------|
| Cat. No.: | HY-19621 | | |
| CAS No.: | 62054-67-5 | | |
| Molecular Formula: | C ₁₁ H ₁₂ F ₃ N ₃ O ₃ | | |
| Molecular Weight: | 291.23 | | |
| Target: | HIF/HIF Prolyl-Hydroxylase | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 2 years |
| | | -20°C | 1 year |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (429.21 mM; Need ultrasonic)

| Concentration | Mass | | |
|---------------|-----------|------------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 3.4337 mL | 17.1686 mL | 34.3371 mL |
| 5 mM | 0.6867 mL | 3.4337 mL | 6.8674 mL |
| 10 mM | 0.3434 mL | 1.7169 mL | 3.4337 mL |

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

BIOLOGICAL ACTIVITY

Description

THS-044 binding stabilizes the HIF2 α PAS-B folded state, for regulating HIF2 activity in endogenous and clinical settings. Target: HIF2 α . Limited trypsin proteolysis reveals that both apo and THS-044-bound protein are efficiently cut at R330 in the extended HI loop. In the THS-044 bound state, there appears no additional proteolysis at the remaining candidate trypsin sites. In contrast, these THS-044-protected sites are protease accessible in the unliganded protein, leading its complete degradation. In parallel, NMR-based deuterium exchange measurements revealed a dramatic stabilization of the THS-044-bound protein β -sheet, with some sites experiencing 100-fold enhanced protection factors relative to the ligand-free protein.

REFERENCES

- [1]. Motto I, et al. New aryl hydrocarbon receptor homology model targeted to improve docking reliability. *J Chem Inf Model*. 2011 Nov 28;51(11):2868-2881.
- [2]. Scheuermann TH, et al. Artificial ligand binding within the HIF2 α PAS-B domain of the HIF2 transcription factor. *Proc Natl Acad Sci U S A*. 2009 Jan 13;106(2):450-

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

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