



# 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

### SZABO-SCANDIC Handels GmbH

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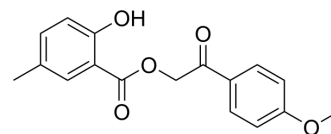
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## KLF10-IN-1

|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-W181026                                                                                          |
| CAS No.:           | 1197834-98-2                                                                                        |
| Molecular Formula: | C <sub>17</sub> H <sub>16</sub> O <sub>5</sub>                                                      |
| Molecular Weight:  | 300.31                                                                                              |
| Target:            | Fluorescent Dye                                                                                     |
| Pathway:           | Others                                                                                              |
| Storage:           | <div> Powder -20°C 3 years </div> <div> In solvent -80°C 6 months </div> <div> -20°C 1 month </div> |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (166.49 mM; Need ultrasonic)

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg       | 10 mg      |
|------------------------------|--------------------------|------|-----------|------------|------------|
|                              |                          |      |           |            |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 3.3299 mL | 16.6495 mL | 33.2989 mL |
|                              | 5 mM                     |      | 0.6660 mL | 3.3299 mL  | 6.6598 mL  |
|                              | 10 mM                    |      | 0.3330 mL | 1.6649 mL  | 3.3299 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

KLF10-IN-1 (#48-15) is a KLF10 inhibitor with an IC<sub>50</sub> value of 40 μM for KLF10 reporter gene. KLF10-IN-1 can inhibit KLF10-DNA binding and transcriptional activity, block the conversion of CD4+CD25<sup>-</sup>T cells to CD4+CD25<sup>+</sup>T regulatory cells, and inhibit the expression of KLF10 target genes. KLF10-IN-1 can be used as a useful mechanistic probe to study KLF10-mediated effects and T regulatory cell biology<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Krüppel-Like Factor 10 (KLF10)<sup>[1]</sup>.

### REFERENCES

[1]. Khedkar SA, et al. Discovery of small molecule inhibitors to Krüppel-like factor 10 (KLF10): implications for modulation of T regulatory cell differentiation. J Med Chem. 2015;58(3):1466-1478.

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

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