



# 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 HandelsgmbH

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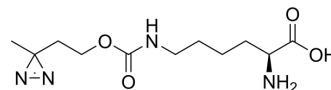
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## DiAzKs

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-D0853   |
| CAS No.:           | 1253643-88-7   |
| Molecular Formula: | C <sub>11</sub> H <sub>20</sub> N <sub>4</sub> O <sub>4</sub>                                  |
| Molecular Weight:  | 272.3  |
| Target:            | Fluorescent Dye  |
| Pathway:           | Others   |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



## SOLVENT & SOLUBILITY

### In Vitro

H<sub>2</sub>O : 5 mg/mL (18.36 mM; Need ultrasonic)  
DMSO : 2 mg/mL (7.34 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 3.6724 mL | 18.3621 mL | 36.7242 mL |
|                           | 5 mM                  | 0.7345 mL | 3.6724 mL  | 7.3448 mL  |
|                           | 10 mM                 | 0.3672 mL | 1.8362 mL  | 3.6724 mL  |

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

### In Vivo

- Add each solvent one by one: PBS  
Solubility: 12.5 mg/mL (45.91 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 0.67 mg/mL (2.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 0.67 mg/mL (2.46 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

DiAzKs (H-L-Photo-lysine) is a diazirine-containing lysine amino acid and is a photo-cross-linker. DiAzKs can site-selective incorporated into proteins and is used to crosslink protein-protein interactions in vitro and in living cells. DiAzKs acts as a UV light-activated photo-crosslinking probe<sup>[1][2][3]</sup>.

### In Vitro

Photo-lysine, which is readily incorporated into proteins by native mammalian translation machinery, can be used to capture and identify proteins that recognize lysine post-translational modifications (PTMs), including 'readers' and 'erasers' of histone modifications<sup>[2]</sup>.

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

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## CUSTOMER VALIDATION

- Nat Biotechnol. 2021 Mar;39(3):347-356.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

- [1]. Ai HW, et al. Probing protein-protein interactions with a genetically encoded photo-crosslinking amino acid. *Chembiochem*. 2011 Aug 16;12(12):1854-7.
  - [2]. Chatterjee A, et al. Efficient viral delivery system for unnatural amino acid mutagenesis in mammalian cells. *Proc Natl Acad Sci U S A*. 2013 Jul 16;110(29):11803-8.
  - [3]. Yang T, et al. Photo-lysine captures proteins that bind lysine post-translational modifications. *Nat Chem Biol*. 2016 Feb;12(2):70-2.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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