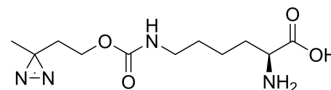


DiAzKs

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



SOLVENT & SOLUBILITY

In Vitro

H₂O : 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^{[1][2][3]}.

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^[2].

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

CUSTOMER VALIDATION

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

See more customer validations on www.MedChemExpress.com

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA