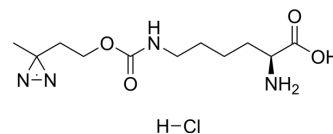


DiAzKs hydrochloride

Cat. No.:	HY-D0853A
CAS No.:	2421187-79-1
Molecular Formula:	C ₁₁ H ₂₁ ClN ₄ O ₄
Molecular Weight:	308.76
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (809.69 mM; Need ultrasonic)
H₂O : 50 mg/mL (161.94 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	3.2388 mL	16.1938 mL
5 mM			0.6478 mL	3.2388 mL	6.4775 mL
10 mM			0.3239 mL	1.6194 mL	3.2388 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (161.94 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DiAzKs (H-L-Photo-lysine) hydrochloride is a diazirine-containing lysine amino acid and is a photo-cross-linker. DiAzKs hydrochloride can site-selective incorporated into proteins and is used to crosslink protein-protein interactions in vitro and in living cells. DiAzKs hydrochloride 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.

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