Product Data Sheet

Product Name: H-L-Photo-lysine hydrochloride
Cat. No.: GC60191

Chemical Properties

Cas. No.			
SMILES	N[C@@H](CCCCNC(OCCC1(C)N=N1)=O)C(O)=O.[H]Cl		
Formula	$C_{11}H_{21}ClN_4O_4$	M.Wt	308.76
Solubility		Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	H-L-Photo-lysine hydrochloride		

Background

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

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].

[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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