Mal-PEG6-PFP ester

Cat. No.: HY-130454

CAS No.: 1599486-33-5

Molecular Formula: $C_{25}H_{30}F_5NO_{10}$

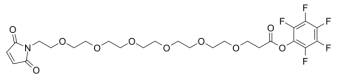
Molecular Weight: 599.5

Target: PROTAC Linkers

Pathway: PROTAC

Storage: -20°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (166.81 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6681 mL	8.3403 mL	16.6806 mL
	5 mM	0.3336 mL	1.6681 mL	3.3361 mL
	10 mM	0.1668 mL	0.8340 mL	1.6681 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Mal-PEG6-PFP ester is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1].

IC_{50} & Target		
	PEGs	Alkyl/ether

In Vitro

PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].

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

REFERENCES

[1]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

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

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