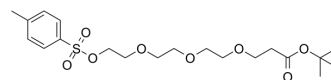


Tos-PEG4-t-butyl ester

Cat. No.:	HY-130422		
CAS No.:	217817-01-1		
Molecular Formula:	C ₂₀ H ₃₂ O ₈ S		
Molecular Weight:	432.53		
Target:	PROTAC Linkers		
Pathway:	PROTAC		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (231.20 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	2.3120 mL	11.5599 mL
	5 mM	0.4624 mL	2.3120 mL	
	10 mM	0.2312 mL	1.1560 mL	2.3120 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 (5.78 mM); Suspended solution; Need ultrasonic			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.78 mM); Clear solution; Need ultrasonic			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.78 mM); Clear solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	Tos-PEG4-t-butyl ester (Tos-PEG4-Boc) is a PROTAC linker, which refers to the PEG composition. Tos-PEG4-t-butyl ester (Tos-PEG4-Boc) can be used in the synthesis of a series of PROTACs, such as BI-3663 (HY-111546). BI-3663 is a highly selective PTK2/FAK PROTAC, with cereblon ligands to hijack E3 ligases for PTK2 degradation, and inhibits PTK2 with an IC ₅₀ of 18 nM [1].	
IC ₅₀ & Target	PEGs	Alkyl/ether

REFERENCES

[1]. Popow J, et al. Highly Selective PTK2 Proteolysis Targeting Chimeras to Probe Focal Adhesion Kinase Scaffolding Functions. J Med Chem. 2019 Mar 14;62(5):2508-2520.

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

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