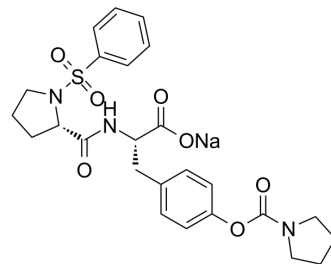


BOP sodium

Cat. No.:	HY-129453
CAS No.:	1947348-42-6
Molecular Formula:	C ₂₅ H ₂₈ N ₃ NaO ₇ S
Molecular Weight:	537.56
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (232.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.8603 mL	9.3013 mL	18.6026 mL
	5 mM		0.3721 mL	1.8603 mL	3.7205 mL
	10 mM		0.1860 mL	0.9301 mL	1.8603 mL

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

BIOLOGICAL ACTIVITY

Description

BOP sodium is a potent and selective dual $\alpha 9\beta 1/\alpha 4\beta 1$ integrin inhibitor with K_d values in the picomolar range. BOP sodium shows the rapid and preferential mobilization of hematopoietic stem cell (HSC) and progenitors. BOP sodium has little inhibitory activity on $\alpha 4\beta 7$, $\alpha 1\beta 1$, $\alpha 2\beta 1$, and $\alpha 5\beta 1$, $\alpha 11\beta 3$ integrins^{[1][2]}.

IC₅₀ & Target

$\alpha 4\beta 1$

$\alpha 9\beta 1$

REFERENCES

[1]. R Blake Pepinsky, et al. Comparative assessment of the ligand and metal ion binding properties of integrins alpha9beta1 and alpha4beta1. *Biochemistry*. 2002 Jun 4;41(22):7125-41.

[2]. Benjamin Cao, et al. Therapeutic targeting and rapid mobilization of endosteal HSC using a small molecule integrin antagonist. *Nat Commun*. 2016 Mar 15;7:11007.

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