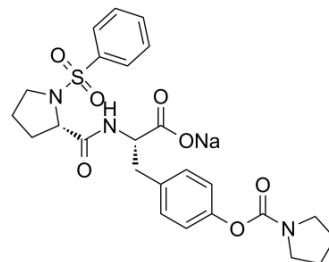


BOP sodium

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



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 $\alpha 5\beta 1$, $\alpha 1\beta 3$ integrins^{[1][2]}.

IC₅₀ & Target	$\alpha 4\beta 1$	$\alpha 9\beta 1$
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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.

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