R-BC154 acetate

MedChemExpress

Cat. No.:	HY-136214	
Molecular Formula:	$C_{56}H_{65}N_9O_{14}S_3$	
Molecular Weight:	1184.36	
Target:	Integrin	
Pathway:	Cytoskeleton	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY			
Description	R-BC154 acetate is a selective fluorescent $\alpha_9\beta_1$ integrin antagonist. R-BC154 acetate acts as a useful high affinity, activation dependent integrin probe, which can be used to investigate $\alpha_9\beta_1$ and $\alpha_4\beta_1$ integrin binding activity ^[1] .		
IC ₅₀ & Target	α9β1		
In Vitro	R-BC154 acetate has 3 times greater affinities for α ₉ β ₁ (K _i =12.7 nM) relative to α ₄ β ₁ (K _i =38.0 nM) under Ca ²⁺ /Mg ²⁺ conditions in human glioblastoma LN18 cell lines ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	R-BC154 acetate (10 mg/kg; i.v.) acts as an in vivo probe for bone marrow haemopoietic stem cells in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	C57Bl/6 mice (6-8 weeks old) ^[1]	
	Dosage:	10 mg/kg	
	Administration:	Intravenous injection	
	Result:	Was capable of binding haemopoietic progenitor cells and HSC within mice bone marrow in vivo.	

REFERENCES

[1]. Design, synthesis and binding properties of a fluorescent α9β1/α4β1 integrin antagonist and its application as an in vivo probe for bone marrow haemopoietic stem cells. Org Biomol Chem. 2014 Feb 14;12(6):965-78.

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

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