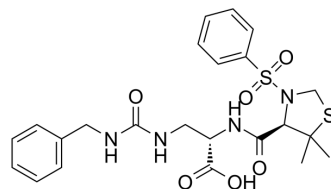


TC-I 15

Cat. No.:	HY-107588		
CAS No.:	916734-43-5		
Molecular Formula:	C ₂₃ H ₂₈ N ₄ O ₆ S ₂		
Molecular Weight:	520.62		
Target:	Integrin		
Pathway:	Cytoskeleton		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (480.20 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9208 mL	9.6039 mL	19.2079 mL
	5 mM	0.3842 mL	1.9208 mL	3.8416 mL
	10 mM	0.1921 mL	0.9604 mL	1.9208 mL

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

BIOLOGICAL ACTIVITY

Description

TC-I 15 (TC-I-15) is an allosteric, collagen-binding integrin $\alpha 2\beta 1$ inhibitor with IC₅₀ values of 26.8 μ M and 0.4 μ M for GFOGER and GLOGEN, respectively. TC-I 15 inhibits platelet adhesion to collagen and thrombus deposition^[1].

IC₅₀ & Target

$\alpha 2\beta 1$	$\alpha 2\beta 1$	$\alpha 1\beta 1$	$\alpha 1\beta 1$
0.4 ($\alpha 2\beta 1$ μ M (IC ₅₀))	26.8 ($\alpha 2\beta 1$ μ M (IC ₅₀))	23.6 ($\alpha 1\beta 1$ μ M (IC ₅₀))	24.4 ($\alpha 1\beta 1$ μ M (IC ₅₀))
$\alpha 11\beta 1$	$\alpha 11\beta 1$		
177 ($\alpha 11\beta 1$ μ M (IC ₅₀))	3177 ($\alpha 11\beta$ μ M (IC ₅₀))		

REFERENCES

[1]. Emma J. Hunter, Selectivity of the collagen-binding integrin inhibitors, TC-I-15 and obtustatin. Toxicol Appl Pharmacol. 2021 Oct 1;428:115669.

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

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