# **XVA143**

Cat. No.: HY-139202 CAS No.: 264275-77-6 Molecular Formula:  $C_{25}H_{21}Cl_2N_3O_8$ 

Molecular Weight: 562.36 Target: Integrin Pathway: Cytoskeleton

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

**Product** Data Sheet

## **BIOLOGICAL ACTIVITY**

Description XVA143, an  $\alpha/\beta$  I-like allosteric antagonist, inhibits LFA-1 dependent firm adhesion, while at the same time it enhances adhesion in shear flow and rolling both in vitro and in vivo[1].

XVA143 (1  $\mu$ M) completely abolishes binding of ICAM-1 to LFA-1 in Mn<sup>2+</sup> and Mg<sup>2+</sup>/EGTA, with no hint of agonism<sup>[1]</sup>.XVA143 In Vitro restores rolling of the  $\alpha_L\textsc{-E310A}$   $\beta_2$  mutant by inducing extension of  $\alpha_L^{\left[2\right]}.$ 

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay<sup>[1]</sup>

Cell Line:	K562 cells.
Concentration:	0, 0.2, 0.5 and 1 $\mu$ M.
Incubation Time:	
Result:	Potent against the weakest activator (2 mM Mg $^{2+}$ /1 mM EGTA, IC $_{50}$ ~10 $^{-3}$ nM) and least potent against the strongest activator (1 mM Mn $^{2+}$ , IC $_{50}$ ~10 $^{-3}$ nM).

### Cell Viability Assay<sup>[1]</sup>

Cell Line:	Wild-type murine lymphocytes $^{[1]}$ .
Concentration:	100 μΜ.
Incubation Time:	
Result:	Induced a 50% increase in rolling fraction compared to vehicle-treated control cells ((from 27±5% to 41±7%).

### **REFERENCES**

[1]. Azucena Salas, et al. Rolling adhesion through an extended conformation of integrin alphaLbeta2 and relation to alpha I and beta I-like domain interaction. Immunity. 2004 Apr;20(4):393-406.

2]. Mélanie R Tardif, et al. LFA- nhibitor T-20. Antimicrob Ager			us type 1 infection and transmission ar	nd potentiating the effect of the fusion
		t been fully validated for me	dical applications. For research us	e only.
	Tel: 609-228-6898	Fax: 609-228-5909	E-mail: tech@MedChemExpre	ss.com
	Address: 1	Deer Park Dr, Suite Q, Monmo	outh Junction, NJ 08852, USA	

Page 2 of 2 www.MedChemExpress.com