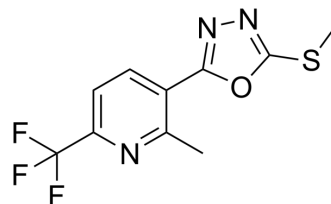


ICT5040

Cat. No.:	HY-129094
CAS No.:	215655-21-3
Molecular Formula:	C ₁₀ H ₈ F ₃ N ₃ OS
Molecular Weight:	275.25
Target:	CXCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ICT5040 is a small molecule CXCR4 antagonist (IC ₅₀ =3.8 μM). ICT5040 inhibits CXCL12-mediated proliferation and migration, and suppresses CXCL12-induced intracellular calcium mobilisation in U87 glioma cells ^[1] .								
IC₅₀ & Target	CXCR4 3.8 μM (IC ₅₀)								
In Vitro	<p>ICT5040 (1-100 μM; 0-4 d) dose-dependently inhibits CXCL12-induced proliferation and migration of U87-glioma cells^[1]. ICT5040 reduces CXCL12-induced intracellular calcium mobilisation in U87 glioma cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Migration Assay ^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>U87-glioma cells</td> </tr> <tr> <td>Concentration:</td> <td>1 μM, 10 μM, 100 μM; with 100 ng/mL CXCL12</td> </tr> <tr> <td>Incubation Time:</td> <td>0, 1, 2, 3, and 4 days</td> </tr> <tr> <td>Result:</td> <td>Resulted reduction of CXCL12 induced proliferation and migration of U87 cells at day 3.</td> </tr> </table>	Cell Line:	U87-glioma cells	Concentration:	1 μM, 10 μM, 100 μM; with 100 ng/mL CXCL12	Incubation Time:	0, 1, 2, 3, and 4 days	Result:	Resulted reduction of CXCL12 induced proliferation and migration of U87 cells at day 3.
Cell Line:	U87-glioma cells								
Concentration:	1 μM, 10 μM, 100 μM; with 100 ng/mL CXCL12								
Incubation Time:	0, 1, 2, 3, and 4 days								
Result:	Resulted reduction of CXCL12 induced proliferation and migration of U87 cells at day 3.								

REFERENCES

[1]. Vinader V, et al. Discovery and computer aided potency optimization of a novel class of small molecule CXCR4 antagonists. PLoS One. 2013 Oct 18;8(10):e78744.

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