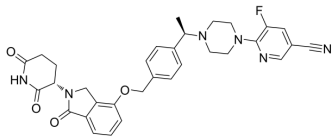
Immuno modulator-1

Cat. No.:	HY-153952
CAS No.:	2757469-20-6
Molecular Formula:	$C_{32}H_{31}FN_6O_4$
Molecular Weight:	582.62
Target:	TNF Receptor; Interleukin Related; Potassium Channel
Pathway:	Apoptosis; Immunology/Inflammation; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Immuno modulator-1 (compound 22) inhibits TNFα and IL-2 secretion in human peripheral blood mononuclear cells (hPBMC), with IC_{50} values of 4.7 and 26 nM, respectively. Immuno modulator-1 shows hERG potassium channel blocking effect, with Inhibitory percentage of 20% at 3 μM[1].

IC_{50} & Target

IL-2

In Vitro

Immuno modulator-1 (compound 22) inhibits the proliferation of NCI-H929 human myeloma cell, with an IC_{50} of 0.6 nM[1].

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

In Vivo

Immuno modulator-1 (compound 22) (1 mg/kg (IV), 5 mg/kg (PO); once) has an oral bioavailability of 30% in Male Sprague-Dawley rats[1].

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

Animal Model:	Male Sprague-Dawley rats[1]
Dosage:	1 mg/kg (IV), 5 mg/kg (PO)
Administration:	IV (2 mL/kg), PO (10 mL/kg); once (Pharmacokinetic Analysis)
Result:	Pharmacokinetic Parameters of Immuno modulator-1 in male Sprague-Dawley rats[1].

	IV (1 mg/kg)	PO (5 mg/kg)
C_{max} (ng/mL)		1437
AUC_{0-24} (ng/mL⋅h)		13029
CL (mL/min/kg)	2.2	
Vss (L/kg)	0.36	

F (%)		30%

REFERENCES

[1]. Chen Xiangyang, et al. Heterocyclic immunomodulator. Patent, WO2022007659A1.

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