Proteins

Product Data Sheet

AMX12006

Cat. No.: HY-149290 CAS No.: 2639775-01-0

Molecular Formula: $C_{26}H_{22}F_3N_3O_3$ Molecular Weight: 481.47

Prostaglandin Receptor Target:

Pathway: GPCR/G Protein

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

Analysis.

BIOLOGICAL ACTIVITY

Description AMX12006 is a potent, selective and orally active EP4 antagonist with an IC₅₀ value of 4.3 nM. AMX12006 shows cytotoxic and antitumor activity[1].

IC₅₀ & Target hEP4

4.3 nM (IC₅₀)

In Vitro

AMX12006 (compound 36) (0-100 μ M) shows cytotoxic with IC₅₀s of 46.73, 79.47, >100, 41.39, >100 μ M for MCF-7, 4T1, HCA-7, CT-26 WT, LLC cells, respectively^[1].

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

Cell Cytotoxicity Assay^[1]

Cell Line:	MCF-7, 4T1, HCA-7, CT-26 WT, LLC cells
Concentration:	0-100 μΜ
Incubation Time:	
Result:	Showed cytotoxic with IC $_{50}$ s of 46.73, 79.47, >100, 41.39, >100 μ M for MCF-7, 4T1, HCA-7, CT-26 WT, LLC cells, respectively.

In Vivo

AMX12006 (75, 150 mg/kg; p.o.; once daily for 11 days) shows antitumor activity in a dose-dependent manner^[1]. Pharmacokinetic Parameters of AMX12006 in Sprague-Dawley rats^[1].

T _{max} (h) 0.5
$C_{\text{max}} (\text{ng/mL})$ 4627 ± 304 8243 ± 370
$AUC_{(0-t)}(h \cdot ng/mL)$ 3375 ± 477 25672 ± 5668

REFERENCES

[1]. Debasis Das, et al. Discovery of Novel, Selective Prostaglandin EP4 Receptor Antagonists with Efficacy in Cancer Models. ACS Med. Chem. Lett. 2023.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: } tech@MedChemExpress.com$

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA