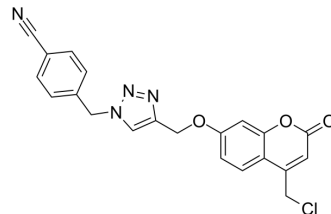


hCAIX-IN-11

Cat. No.:	HY-147828
CAS No.:	2497504-81-9
Molecular Formula:	C ₂₁ H ₁₅ ClN ₄ O ₃
Molecular Weight:	406.82
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hCAIX-IN-11 (Compound 5d) is a selective carbonic anhydrase IX and XII inhibitor with K _i s of 32.7 and 623.5 nM for hCA IX and hCA XII, respectively. hCA IX and hCA XII are transmembrane isoforms which have been characterized as biomarkers for several types of tumors. The hCA XII assists in maintenance of acid-base homeostasis in normal as well as tumor cells ^[1] .
IC₅₀ & Target	K _i : 32.7 nM (hCA IX), 623.5 nM (hCA XII), ∞10000 nM nM (hCA I), ∞10000 (hCA II) ^[1]

REFERENCES

[1]. Pavitra S Thacker, et al. Synthesis and biological evaluation of some coumarin hybrids as selective carbonic anhydrase IX and XII inhibitors. Bioorg Chem. 2020 Nov;104:104272.

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

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