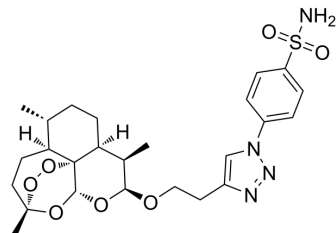


hCA XII/II/IX-IN-1

Cat. No.:	HY-147799
Molecular Formula:	C ₂₅ H ₃₄ N ₄ O ₇ S
Molecular Weight:	534.63
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hCA XII/II/IX-IN-1 (Compound 3) is a potent human carbonic anhydrase (hCA) inhibitor with IC ₅₀ values of 2.6, 0.004, 0.005 and 0.001 μM against hCA I, hCA II, hCA IX and hCA XII, respectively. hCA XII/II/IX-IN-1 shows anticancer activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.001 μM (hCA XII), 0.004 μM (hCA II), 0.005 μM (hCA IX), 2.6 μM (hCA I) ^[1]
In Vitro	hCA XII/II/IX-IN-1 (Compound 3) shows inhibitory activity against HT-29 normoxia, HT-29 hypoxia, MDA-MB-231 normoxia and MDA-MB-231 hypoxia cells with IC ₅₀ values of 1.71 ± 0.24, 0.65 ± 0.033, 17.56 ± 0.99 and 1.92 ± 0.11 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. An R, et al. Discovery of novel artemisinin-sulfonamidehybrids as potential carbonicanhydraseIX inhibitors with improved antiproliferative activities. Bioorg Chem. 2020 Nov;104:104347.

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

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