

hCAIX-IN-19

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	hCAIX-IN-19 is a sulfonamide inhibitor with an inhibition constant (KI) of 6.2 nM for hCAIX, exhibiting significant selectivity towards hCAIX over hCAI (hCAI/hCAIX = 117).
Targets(IC50)	Others,Carbonic Anhydrase
In vitro	hCAIX-IN-19 (1) is a small molecule inhibitor designed to target and disrupt the function of the enzyme human carbonic anhydrase IX (hCAIX). By binding selectively to the active site of hCAIX, it prevents the enzyme from catalyzing the reversible hydration of carbon dioxide to bicarbonate and protons, which is a critical physiological process. This inhibition has potential therapeutic implications in oncology, as hCAIX is overexpressed in several cancer types and contributes to tumor growth and metastasis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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