

hCA/VEGFR-2-IN-2

Chemical Properties

CAS No. :

Formula: C₂₃H₂₆N₆O₅S

Molecular Weight: 498.55

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	Compound 8g (hCA/VEGFR-2-IN-2) is an indolinonylbenzenesulfonamide identified as a potential dual inhibitor targeting cancer-associated isozymes hCA IX/XII and the angiogenic receptor VEGFR-2. It demonstrates VEGFR-2 inhibition with an IC ₅₀ of 204 nM and high affinity for hCAs, exhibiting K _i s of 3.6 nM for hCA IX, 16.1 nM for hCA II, 16.7 nM for hCA XII, and 75.3 nM for hCA I. Furthermore, compound 8g exhibits antiproliferative effects on breast cancer cells overexpressing VEGFR-2 [1].
Targets(IC ₅₀)	Carbonic Anhydrase, VEGFR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0058 mL	10.0291 mL	20.0582 mL
5 mM	0.4012 mL	2.0058 mL	4.0116 mL
10 mM	0.2006 mL	1.0029 mL	2.0058 mL
50 mM	0.0401 mL	0.2006 mL	0.4012 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481