

hCA/VEGFR-2-IN-4

## Chemical Properties

CAS No. :

Formula: C22H23FN6O5S

Molecular Weight: 502.52

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	hCA/VEGFR-2-IN-4 (compound 15b), an indolinybenzenesulfonamide, serves as a potential dual inhibitor targeting cancer-related human carbonic anhydrases hCA IX/XII and vascular endothelial growth factor receptor 2 (VEGFR-2). It exhibits an IC50 value of 0.811 $\mu$ M against VEGFR-2 and shows high affinity for hCAs, with inhibition constants (Ki) of 3.8 nM for hCA XII, 6.2 nM for hCA IX, 19.8 nM for hCA II, and 35.5 nM for hCA I. Additionally, the compound demonstrates antiproliferative effects on breast cancer cells overexpressing VEGFR-2 [1].
Targets(IC50)	Carbonic Anhydrase,VEGFR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.990 mL	9.9499 mL	19.8997 mL
5 mM	0.398 mL	1.990 mL	3.9799 mL
10 mM	0.199 mL	0.995 mL	1.990 mL
50 mM	0.0398 mL	0.199 mL	0.398 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.

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