

hCA/VEGFR-2-IN-3

## Chemical Properties

CAS No. :

Formula: C<sub>24</sub>H<sub>28</sub>N<sub>6</sub>O<sub>6</sub>S

Molecular Weight: 528.58

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-3 (compound 8j) is an indolinonylbenzenesulfonamide with potential as a dual inhibitor of cancer-associated hCA IX/XII and VEGFR-2. It inhibits VEGFR-2 with an IC <sub>50</sub> of 358 nM and exhibits high affinity for hCAs, with K <sub>i</sub> values of 4.2 nM for hCA IX, 22.9 nM for hCA II, 25.1 nM for hCA I, and 28.0 nM for hCA XII. Furthermore, it demonstrates specific antiproliferative activity against breast cancer cells that overexpress VEGFR-2 [1].
Targets(IC <sub>50</sub> )	Carbonic Anhydrase,VEGFR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8919 mL	9.4593 mL	18.9186 mL
5 mM	0.3784 mL	1.8919 mL	3.7837 mL
10 mM	0.1892 mL	0.9459 mL	1.8919 mL
50 mM	0.0378 mL	0.1892 mL	0.3784 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