

TR-100

Chemical Properties

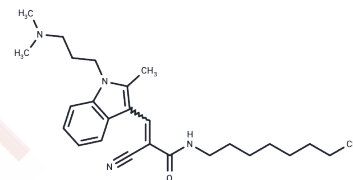
CAS No. : 1128165-86-5

Formula: C₂₆H₃₈N₄O

Molecular Weight: 422.61

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	TR-100 is a small-molecule inhibitor that targets tumor-associated tropomyosin; it specifically binds to the C-terminus of tropomyosin 3.1, thereby disrupting its interaction with actin filaments and compromising cytoskeletal stability. TR-100 selectively affects Tpm3.1-dependent actin filament function in cancer cells while having minimal impact on normal tissues (such as cardiac muscle). It is primarily used to study mechanisms related to tumor cell proliferation, migration, and survival. Additionally, TR-100 inhibits Dynamin-1 with an IC ₅₀ value of 10.8 μM.
Targets(IC ₅₀)	Arp2/3 Complex

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3662 mL	11.8312 mL	23.6625 mL
5 mM	0.4732 mL	2.3662 mL	4.7325 mL
10 mM	0.2366 mL	1.1831 mL	2.3662 mL
50 mM	0.0473 mL	0.2366 mL	0.4732 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.

Reference

Hill TA, et al. Inhibition of dynamin mediated endocytosis by the dynoles--synthesis and functional activity of a family of indoles. J Med Chem. 2009 Jun 25;52(12):3762-73.

Kee AJ, et al. On-target action of anti-tropomyosin drugs regulates glucose metabolism. Sci Rep. 2018 Mar 15;8(1):4604.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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