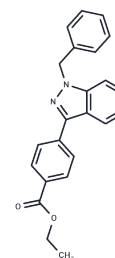


YD-3

Chemical Properties

CAS No. : 170632-41-4
 Formula: C₂₃H₂₀N₂O₂
 Molecular Weight: 356.42
 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	YD-3 is a PAR4 antagonist that significantly inhibits thrombin-induced platelet aggregation in rabbits (IC ₅₀)=28.3 microM). In addition, YD-3 suppresses thrombin-induced proliferation of vascular smooth muscle cells (VSMCs) and reduces neointimal thickening after balloon injury. Through Ras- and ERK1/2-mediated signaling pathways, YD-3 impedes thrombin-driven VSMC proliferation. When analyzed with Western blot, YD-3 primarily inhibits thrombin-induced expression of vascular endothelial growth factor receptor 2 (Flk-1) without affecting extracellular signal-regulated kinase 1/2 phosphorylation. YD-3 could potentially have value in elucidating the pathophysiology of thrombin-induced angiogenesis.
Targets(IC ₅₀)	Thrombin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8057 mL	14.0284 mL	28.0568 mL
5 mM	0.5611 mL	2.8057 mL	5.6114 mL
10 mM	0.2806 mL	1.4028 mL	2.8057 mL
50 mM	0.0561 mL	0.2806 mL	0.5611 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