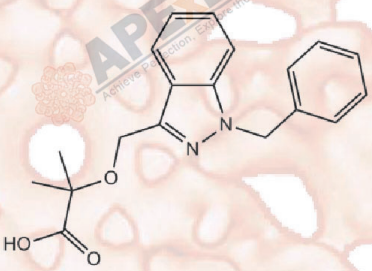
Product Data Sheet

Bindarit



Cat. No.: B2156
CAS No.: 130641-38-2
Formula: C19H20N2O3
M.Wt: 324.37
Synonyms:
Target:
Pathway:
Storage: Store at -20°C

Solvent & Solubility

In Vitro

≥16.2mg/mL in DMSO

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1mg	5mg	10mg
1 mM	3.0829 mL	15.4145 mL	30.8290 mL
5 mM	0.6166 mL	3.0829 mL	6.1658 mL
10 mM	0.3083 mL	1.5414 mL	3.0829 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	CCL2, CCL7 and CCL8 inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Rat vascular smooth muscle cells (VSMCs)
Preparation method:	The solubility of this compound in DMSO is > 16.2 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	10 ~ 300 μM
Applications:	At the doses of 100 and 300 μM, Bindarit significantly inhibited

		PDGF-BB-induced rat VSMC proliferation by 27% and 42%, respectively. Moreover, in VSMCs stimulated with PDGF-BB, Bindarit (10 ~ 300 μM) inhibited MCP-1 production in a concentration-dependent manner.
In Vivo	**Animal experiment**	
	Animal models:	ApoE-/- mice
	Dosage form:	100 mg/kg; p.o.; b.i.d.
	Applications:	In ApoE-/- mice, Bindarit significantly reduced the number of PCNA-positive cells as well as neointimal area. In neointimal lesion, Bindarit also reduced the relative content of F4/80-positive macrophages and the number of VSMCs by 66% and 30%, respectively.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Grassia G, Maddaluno M, Guglielmotti A, et al. The anti-inflammatory agent bindarit inhibits neointima formation in both rats and hyperlipidaemicmice[J]. Cardiovascular research, 2009, 84(3): 485-493.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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