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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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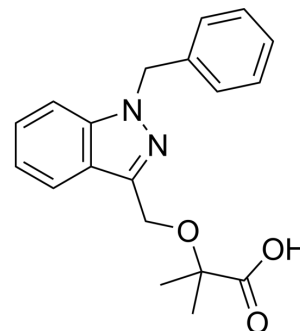
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Bindarit

Cat. No.:	HY-B0498
CAS No.:	130641-38-2
Molecular Formula:	C ₁₉ H ₂₀ N ₂ O ₃
Molecular Weight:	324.37
Target:	CCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 1 year -20°C 6 months



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 46 mg/mL (141.81 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline
Solubility: 5 mg/mL (15.41 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.67 mg/mL (8.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.67 mg/mL (8.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.67 mg/mL (8.23 mM); Clear solution; Need warming

BIOLOGICAL ACTIVITY

Description

Bindarit (AF2838) is a selective inhibitor of the monocyte chemotactic proteins MCP-1/CCL2, MCP-3/CCL7, and MCP-2/CCL8, and no effect on other CC and CXC chemokines such as MIP-1α/CCL3, MIP-1β/CCL4, MIP-3/CCL23. Bindarit also has anti-inflammatory activity^[1].

IC ₅₀ & Target	MCP-1/CCL2, MCP-3/CCL7, and MCP-2/CCL8 ^[1]	
In Vitro	Bindarit (10-300 µM; 48 hours) at 100 µM and 300 µM significantly inhibits platelet derived growth factor-BB (PDGF-BB)-induced rat VSMCs proliferation by 27% and 42%, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]	
	Cell Line:	VSMC cells
	Concentration:	10 µM, 30 µM, 100 µM, 300 µM
	Incubation Time:	48 hours
	Result:	Inhibited PDGF-BB-induced rat VSMCs proliferation.
In Vivo	Bindarit (50 mg/kg; oral administration; every day; for 4 months, 6 months, 8 months; NZB/W F1 female mice) delays the onset of proteinuria and significantly protects from renal function impairment. Bindarit completely prevents monocyte chemoattractant protein (MCP-1) up-regulation ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	NZB/W F1 female mice (two months of age) ^[2]
	Dosage:	50 mg/kg
	Administration:	Oral administration; every day; for 4 months, 6 months, 8 months
	Result:	Delayed the onset of proteinuria and significantly protected from renal function impairment.

CUSTOMER VALIDATION

- Nat Nanotechnol. 2021 Jul;16(7):830-839.
- Materials Today. 2022.
- Cell Mol Immunol. 2023 Jun 12.
- Brain Behav Immun. 2020 Oct;89:400-413.
- Cell Death Differ. 2021 Sep;28(9):2616-2633.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Grassia, G., et al., The anti-inflammatory agent bindarit inhibits neointima formation in both rats and hyperlipidaemic mice. Cardiovasc Res, 2009. 84(3): p. 485-93.
- [2]. Zoja C, Bindarit retards renal disease and prolongs survival in murine lupus autoimmune disease. Kidney Int. 1998 Mar;53(3):726-34.

Caution: Product has not been fully validated for medical applications. For research use only.

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