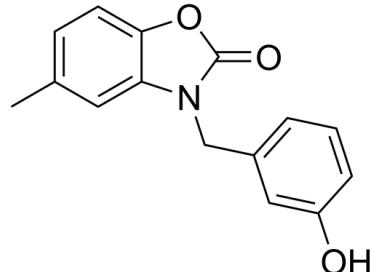


Data Sheet

Product Name:	MIF098
Cat. No.:	CS-0568578
CAS No.:	1208448-95-6
Molecular Formula:	C ₁₅ H ₁₃ NO ₃
Molecular Weight:	255.27
Target:	Macrophage migration inhibitory factor (MIF)
Pathway:	Immunology/Inflammation
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

MIF098 is a macrophage migration inhibitory factor (**MIF**) antagonist. MIF098 inhibits proliferation, migration and fibrosis of pulmonary smooth muscle cells. MIF098 can be used for immunoinflammation-related disease research^[1]. **In Vitro:** MIF098 (0-10 μ M, 48 h) inhibits mPASMC cell proliferation and migration in a concentration-dependent manner, by blocking the migration inhibitory factor (MIF) pathway^[1].

MIF098 reduces collagen synthesis and pulmonary artery fibrosis by inhibiting the TGF β 1/Smad2/3 pathway^[1].

In Vivo: MIF098 (intraperitoneal injection, 40 mg/kg, once a day, 4 weeks) attenuates the process of hypoxia-induced pulmonary arterial hypertension in C57BL/6J mice^[1].

References:

[1]. HuijingHuang, et al. The small molecule macrophage migration inhibitory factor antagonist MIF098, inhibits pulmonary hypertension associated with murine SLE. *Int Immunopharmacol*. 2019 Nov;76:105874.

CAIndexNames:

2(3H)-Benzoxazolone, 3-[(3-hydroxyphenyl)methyl]-5-methyl-

SMILES:

O=C1OC2=CC=C(C)C=C2N1CC3=CC=CC(O)=C3

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

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