

Product Information

MIF antagonist, Purity $\geq 98\%$

Cat. No.: X24-09-YM1234

Size: 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD22376813

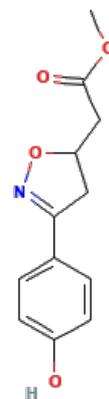
CAS Number: 478336-92-4

Compound CID: 4633677

Synonym: 478336-92-4; Macrophage; ISO-1; Methyl

2-[3-(4-hydroxyphenyl)-4,5-dihydro-1,2-oxazol-5-yl]acetate

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	MIF antagonist, soluble in DMSO and ethanol and insoluble in water, is an inhibitor of the dopachrome tautomerase. The molecular weight of the compound is 235.2, and its molecular formula is C ₁₂ H ₁₃ NO ₄ .
Molecular Weight	235.2
Molecular Formula	C ₁₂ H ₁₃ NO ₄
IUPAC Name	Methyl 2-[3-(4-hydroxyphenyl)-4,5-dihydro-1,2-oxazol-5-yl]acetate
InChI	InChI=1S/C12H13NO4/c1-16-12(15)7-10-6-11(13-17-10)8-2-4-9(14)5-3-8/h2-5,10,14H,6-7H2,1H3
InChI Key	AIXMJTYHQHQJLU-UHFFFAOYSA-N
Canonical SMILES	COC(=O)CC1CC(=NO1)C2=CC=C(C=C2)O
Isomeric SMILES	CN1[C@H](CNC2=C1C(=O)NC(=N2)N)CNC3=CC=C(C=C3)C(=O)N[C@@H](CCC(=O)[O-])C(=O)[O-].[Ca+2]
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 44 mg/mL (187.04 mM); Water: insoluble; Ethanol: 44 mg/mL (187.04 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	MIF antagonist can be studied extensively for its potential therapeutic applications in the treatment of conditions like rheumatoid arthritis, sepsis, and cancer.



Storage

Store at -20°C, and keep desiccated.
