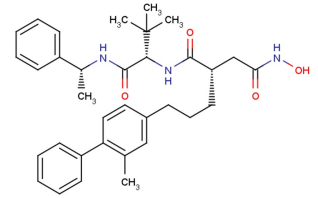


Data Sheet (Cat.No.T17201)

UK 356618

Chemical Properties

CAS No.:	230961-08-7
Formula:	C ₃₄ H ₄₃ N ₃ O ₄
Molecular Weight:	557.72
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	UK 356618 is a potent and selective inhibitor of matrix metalloprotease-3 (IC ₅₀ : 5.9 nM).
Targets(IC ₅₀)	MMP-3: 5.9 nM MMP-13: 73 nM MMP-9: 0.84 μM MMP-2: 1.79 μM MMP-14: 1.9 μM MMP-1: 51 μM
In vitro	UK 356618 is more widely profiled against other MMPs. UK 356618 treatment efficiently abolished the effect of TNF-α on cell migration in NCI-H446 cells [1][2].
In vivo	UK 356618 (15 mg/kg; intravenous injection; for 24 h or 7 days; male Wistar rats) treatment at reperfusion obviously decreases MMP3 activity in the brain [3].

Solubility Information

Solubility	DMSO: 25 mg/mL (44.83 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.793 mL	8.965 mL	17.93 mL
5 mM	0.359 mL	1.793 mL	3.586 mL
10 mM	0.179 mL	0.897 mL	1.793 mL
50 mM	0.036 mL	0.179 mL	0.359 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Yan HQ, et al. Ataxia-telangiectasia mutated activation mediates tumor necrosis factor-alpha induced MMP-13 up-regulation and metastasis in lung cancer cells. *Oncotarget*. 2016 Sep 20;7(38):62070-62083.
- Hafez S, et al. Matrix Metalloprotease 3 Exacerbates Hemorrhagic Transformation and Worsens Functional Outcomes in Hyperglycemic Stroke. *Stroke*. 2016 Mar;47(3):843-51.

Inhibitors · Natural Compounds · Compound Libraries

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