

UK-371804

## Chemical Properties

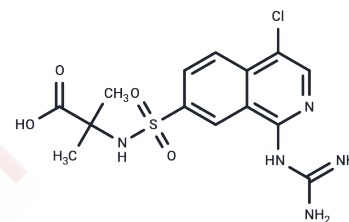
CAS No. : 256477-09-5

Formula: C<sub>14</sub>H<sub>16</sub>ClN<sub>5</sub>O<sub>4</sub>S

Molecular Weight: 385.83

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	UK-371804 is an effective and specific uPA inhibitor. It was selected as a candidate for further preClinicalal evaluation for the treatment of chronic dermal ulcers.
Targets(IC50)	PAI-1,Serine Protease
In vitro	In the acute excision wound model in pigs, topical administration of UK-3718046 penetrates porcine wounds and inhibits exogenous uPA activity without adverse effects on wound-healing parameters.
In vivo	In vitro studies have shown that UK-3718046 is an inhibitor of exogenous uPA in human chronic wound fluid, displaying inhibitory capabilities with an IC <sub>50</sub> of 0.89 μM.

## Solubility Information

Solubility	DMSO: 8 mg/mL (20.73 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.3 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.5918 mL	12.9591 mL	25.9182 mL
5 mM	0.5184 mL	2.5918 mL	5.1836 mL
10 mM	0.2592 mL	1.2959 mL	2.5918 mL
50 mM	0.0518 mL	0.2592 mL	0.5184 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Fish PV, et al. Selective urokinase-type plasminogen activator inhibitors. 4. 1-(7-sulfonamidoisoquinolinyl) guanidines. J Med Chem. 2007 May 17;50(10):2341-51.

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