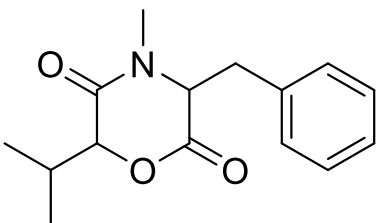


# Product data sheet



MedKoo Cat#: 598428 Name: Lateritin CAS: 65454-13-9 Chemical Formula: C <sub>15</sub> H <sub>19</sub> NO <sub>3</sub> Exact Mass: 261.1365 Molecular Weight: 261.321		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

## 1. Product description:

Lateritin is An Acyl-CoA:cholesterol acyltransferase (ACAT) inhibitor and a platelet aggregation inhibitor isolated from the mycelial cake of *Gibberella lateritium*; bassiatin is the (3S,6R) isomer.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.83 mL	19.13 mL	38.27 mL
5 mM	0.77 mL	3.83 mL	7.65 mL
10 mM	0.38 mL	1.91 mL	3.83 mL
50 mM	0.08 mL	0.38 mL	0.77 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

### In vitro study

- Pettit RK, Pettit GR, Xu JP, Weber CA, Richert LA. Isolation of human cancer cell growth inhibitory, antimicrobial lateritin from a mixed fungal culture. *Planta Med.* 2010 Mar;76(5):500-1. doi: 10.1055/s-0029-1240617. Epub 2009 Nov 25. PMID: 19941263.
- Hasumi K, Shinohara C, Iwanaga T, Endo A. Lateritin, a new inhibitor of acyl-CoA:cholesterol acyltransferase produced by *Gibberella lateritium* IFO 7188. *J Antibiot (Tokyo).* 1993 Dec;46(12):1782-7. doi: 10.7164/antibiotics.46.1782. PMID: 8294234.

### In vivo study

TBD

## 7. Bioactivity

### Biological target:

Lateritin is An Acyl-CoA:cholesterol acyltransferase (ACAT) inhibitor and a platelet aggregation inhibitor isolated from the mycelial cake of *Gibberella lateritium*; bassiatin is the (3S,6R) isomer.

### In vitro activity

Lateritin inhibited the growth of a mini-panel of human cancer cell lines, gram-positive bacteria, and *Candida albicans*.

Reference: *Planta Med.* 2010 Mar;76(5):500-1. <https://pubmed.ncbi.nlm.nih.gov/19941263/>

# Product data sheet



In vivo activity

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TBD

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*