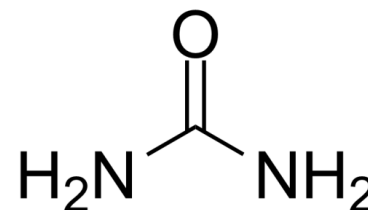


## Data Sheet

<b>Product Name:</b>	Urea
<b>Cat. No.:</b>	CS-B1800
<b>CAS No.:</b>	57-13-6
<b>Molecular Formula:</b>	CH <sub>4</sub> N <sub>2</sub> O
<b>Molecular Weight:</b>	60.06
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	10 mM in DMSO



### BIOLOGICAL ACTIVITY:

Urea is a powerful protein denaturant via both direct and indirect mechanisms<sup>[1]</sup>. A potent emollient and keratolytic agent<sup>[2]</sup>. Used as a diuretic agent. Blood urea nitrogen (BUN) has been utilized to evaluate renal function<sup>[3]</sup>. Widely used in fertilizers as a source of nitrogen and is an important raw material for the chemical industry.

### References:

- [1]. Bennion BJ, et al. The molecular basis for the chemical denaturation of proteins by urea. Proc Natl Acad Sci U S A. 2003 Apr 29;100(9):5142-7.
- [2]. Pan M, et al. Urea: a comprehensive review of the clinical literature. Dermatol Online J. 2013 Nov 15;19(11):20392.
- [3]. Wang H, et al. Urea. Subcell Biochem. 2014;73:7-29.

### CAIndexNames:

Urea

### SMILES:

NC(N)=O

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA