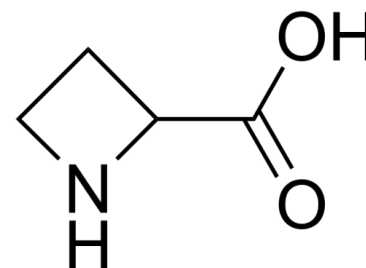


Data Sheet

Product Name:	Azetidine-2-carboxylic acid
Cat. No.:	CS-M0178
CAS No.:	2517-04-6
Molecular Formula:	C ₄ H ₇ NO ₂
Molecular Weight:	101.10
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : 50 mg/mL (494.56 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Azetidine-2-carboxylic acid is a non proteinogenic amino acid homologue of proline. Found in common beets. Azetidine-2-carboxylic acid can be misincorporated into proteins in place of proline in many species, including humans. Toxic and teratogenic agent^{[1][2]}. *In Vitro*: Azetidine-2-carboxylic acid (375-500 µg per day) is incorporated into the collagen synthesized by chick embryo cartilage *in vitro* [3].

References:

- [1]. Rubenstein E, et al. Azetidine-2-carboxylic acid in the food chain. *Phytochemistry*. 2009 Jan;70(1):100-4.
- [2]. Rubenstein E, et al. Misincorporation of the proline analog azetidine-2-carboxylic acid in the pathogenesis of multiple sclerosis: a hypothesis. *J Neuropathol Exp Neurol*. 2008 Nov;67(11):1035-40.
- [3]. Lane JM, et al. Effect of the proline analogue azetidine-2-carboxylic acid on collagen synthesis in vivo. I. Arrest of collagen accumulation in growing chick embryos. *Biochim Biophys Acta*. 1971 Jun 29;236(3):517-27.

CAIndexNames:

2-Azetidinecarboxylic acid

SMILES:

O=C(O)C1NCC1

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

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