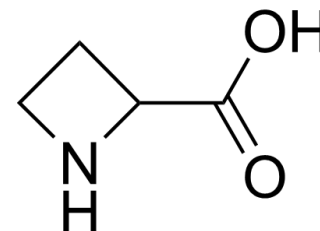


Azetidine-2-carboxylic acid

Cat. No.:	HY-75308		
CAS No.:	2517-04-6		
Molecular Formula:	C ₄ H ₇ NO ₂		
Molecular Weight:	101.1		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	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.

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

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