LKT Laboratories, Inc.

L-Citrulline

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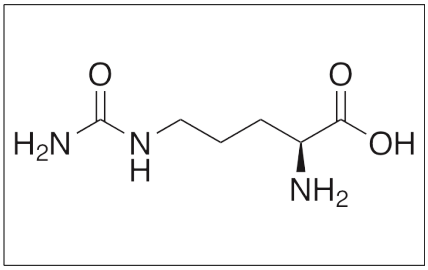
Product Information

Product ID C3578
CAS No. 372-75-8
Chemical Name

Synonym

Formula $C_6H_{13}N_3O_3$
Formula Wt. 175.19
Melting Point 214-216°C
Purity ≥98%
Solubility



Store Temp Ambient
Ship Temp Ambient

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
C3578	1 g	$45.00
C3578	5 g	$55.00
C3578	25 g	$100.00
C3578	100 g	$250.00

Description L-Citrulline is a by product of NO formation from metabolism of L-arginine that exhibits tocolytic and antioxidative activities. L-Citrulline was originally found in watermelon. In isolated rat uteri, L-citrulline decreases uterine contractile force through stimulation of the NO-cGMP relaxant pathway. L-Citrulline reverses NOS inhibitor-induced neurogenic vasodilation. In animal models, L-citrulline inhibits increases in iNOS and myeloperoxidase activity, inhibiting lipid peroxidation and attenuating ischemia/reperfusion-induced gastric damage. This compound may also inhibit neutrophil infiltration in animal models of ischemia/reperfusion.

References

Munglue P, Eumkep G, Wray S, et al. The effects of watermelon (Citrullus lanatus) extracts and L-citrulline on rat uterine contractility. Reprod Sci. 2013 Apr;20(4):437-48. PMID: 22991380.

Gou L, Zhang L, Yin C, et al. Protective effect of L-citrulline against acute gastric mucosal lesions induced by ischemia-reperfusion in rats. Can J Physiol Pharmacol. 2011 May;89(5):317-27. PMID: 21619416.

Lee TJ, Sarwinski S, Ishine T, et al. Inhibition of cerebral neurogenic vasodilation by L-glutamine and nitric oxide synthase inhibitors and its reversal by L-citrulline. J Pharmacol Exp Ther. 1996 Feb;276(2):353-8. PMID: 8632296.