



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

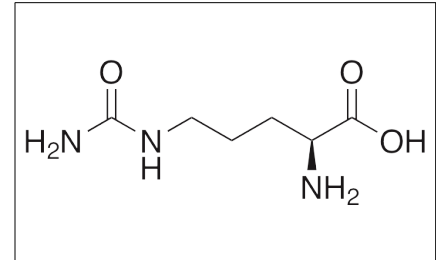
Purity ≥98%

Solubility

Store Temp Ambient

Ship Temp Ambient

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.



Bulk quantities available upon request

Product ID	Size
C3578	1 g
C3578	5 g
C3578	25 g
C3578	100 g

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.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.