



LKT Laboratories, Inc.

Baclofen

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Product Information

Product ID B0110

CAS No. 1134-47-0

Chemical Name B-(Aminomethyl)-4-chlorobenzenepropanoic acid

Synonym Baclon, Clofen, Lioresal

Formula C₁₀H₁₂ClNO₂

Formula Wt. 213.66

Melting Point 206-208 °C

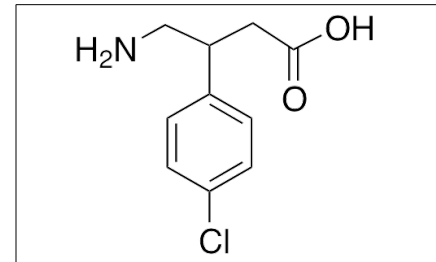
Purity ≥98%

Solubility Soluble in water or 100 mM NaOH.

Store Temp 4 °C

Ship Temp Ambient

Description Baclofen is a GABA derivative that acts as an agonist at GABA-B receptors; it is commonly used in animal models to examine the effects of GABAergic neurotransmission in a variety of fields, including substance dependence, spasticity, pain, and feeding behavior. Baclofen exhibits analgesic, antinociceptive, and antiepileptic/anticonvulsant activities. The analgesic effect of baclofen is mediated by its GABA-B receptor activation, inducing a presynaptic block of action potentials induced by mechanical or thermal stimuli that decreases frequency and amplitude of excitatory post-synaptic currents. Baclofen is used clinically to promote abstinence in alcohol dependent subjects, potentially mediating alcohol craving during withdrawal. This compound is also delivered intrathecally to treat spasticity and dystonia.



Bulk quantities available upon request

Product ID	Size
B0110	1 g
B0110	5 g
B0110	10 g

References Fukuhara K, Katafuchi T, Yoshimura M. Effects of baclofen on mechanical noxious and innocuous transmission in the spinal dorsal horn of the adult rat: in vivo patch-clamp analysis. *Eur J Neurosci.* 2013 Aug 20. [Epub ahead of print]. PMID: 23961926.

Kumru H, Kofler M, Flores MC, et al. Effect of intrathecal baclofen on evoked pain perception: an evoked potentials and quantitative thermal testing study. *Eur J Pain.* 2013 Aug;17(7):1039-47. PMID: 23239275.

Brennan JL, Leung JG, Gagliardi JP, et al. Clinical effectiveness of baclofen for the treatment of alcohol dependence: a review. *Clin Pharmacol.* 2013 Jul 3;5:99-107. PMID: 23869179.

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Levy RA, Proudfit HK. The analgesic action of baclofen [beta-(4-chlorophenyl)-gamma-aminobutyric acid]. *J Pharmacol Exp Ther.* 1977 Aug;202(2):437-45. PMID: 886473.

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