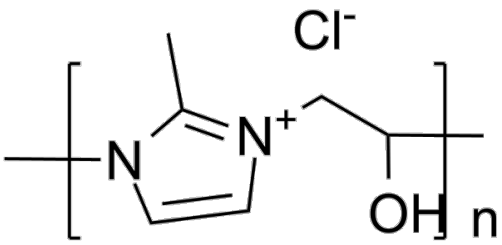
# Product Data Sheet

Product Name: Colestilan
Cat. No.: GC74877

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 95522-45-5 | | |
| Formula | $(C_4H_6N_2.C_3H_5ClO)x$ | M.Wt | N/A |
| Solubility | | Storage | -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | | | |




## Background

Colestilan (MCI-196) is a non-absorbed, non-calcium-based phosphate binder and is also a non-metallic, anion exchange resin. Colestilan is orally active and can be used for hypercholesterolaemia research[1][2].

Colestilan (MCI-196) decreases cholesterol levels by bile acid adsorption through the gastrointestinal tract[2].Colestilan (1 g) binds 2.52?mmol of phosphate at 2–4?mM phosphate concentration and pH7.2 in vitro[2].

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Colestilan (MCI-196) (0.125 or 0.5 g content per 15 g of the feed; p.o.; 14 days) decreases blood phosphate and urinary phosphorus excretion in rats[3].Colestilan is able to improve hyperphosphataemia in rats with renal failure induced by adenine administration for 4 weeks[1].

References:

[1]. Locatelli F, et al. Effect of MCI-196 on serum phosphate and cholesterol levels in haemodialysis patients with hyperphosphataemia: a double-blind, randomized, placebo-controlled study. Nephrol Dial Transplant. 2010 Feb;25(2):574-81.
[2]. Kurihara S, et al. Effect of MCI-196 (colestilan) as a phosphate binder on hyperphosphataemia in aemodialysis patients: a double-blind, placebo-controlled, short-term trial. Nephrol Dial Transplant. 2005 Feb;20(2):424-30.
[3]. MATSUKA MASAYUKI, et al. Use of anion exchange resins for the manufacture of a medicament for the treatment of hyperphosphatemia. Patent EP0793960.

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