

Product Data Sheet

Product Name: Cromolyn sodium

Cat. No.: GC17690

Chemical Properties

Cas. No. 15826-37-6

Chemical Name disodium;5-[3-(2-carboxylato-4-oxochromen-5-yl)oxy-2-hydroxypropoxy]-4-oxochromen-2-carboxylate

SMILES C1=CC2=C(C(=C1)OCC(COC3=CC=CC4=C3C(=O)C=C(O4)C(=O)[O-])O)C(=O)C=C(O2)C(=O)[O-].[Na+].[Na+]

Formula C₂₃H₁₄Na₂O₁₁

M.Wt 512.33

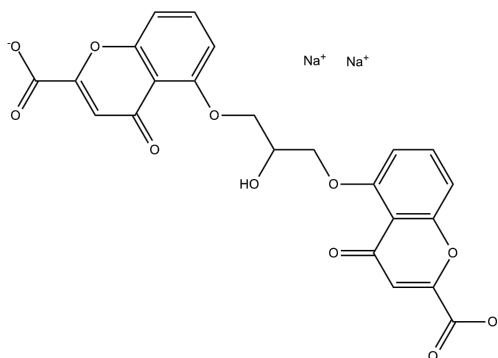
Solubility ≥ 5.12mg/mL in DMSO

Storage 4°C, protect from light, stored under nitrogen

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

Cromolyn sodium is an antiallergic drug. Cromolyn sodium is a GSK-3β inhibitor with an IC₅₀ of 2.0 μM.

Cromolyn (sodium) is a chromone complex that acts by inhibiting the release of chemical mediators from sensitized mast cells. It is used in the prophylactic treatment of both allergic and exercise-induced asthma, but does not affect an established asthmatic attack.

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

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Pretreatment of IIR mice with Cromolyn (sodium) prior to ischemia exhibited no changes of ET-1 levels, injury score and inflammation ($P > 0.05$, PreCr vs. M groups). In conclusion, administration of Cromolyn (sodium) after reperfusion, but not prior to ischemia, attenuates IIRI by downregulating ET-1 and suppressing sustained MC activation[1]. Cromolyn (sodium) has a role in the prevention of Chronic lung disease (CLD). Cromolyn (sodium) cannot be recommended for the prevention of CLD in preterm infants[2].

References:

- [1]. Gan, X., et al., Treatment of mice with cromolyn sodium after reperfusion, but not prior to ischemia, attenuates small intestinal ischemia-reperfusion injury. *Mol Med Rep*, 2013. 8(3): p. 928-34.
- [2]. Huang L, et al. Sinomenine-induced histamine release-like anaphylactoid reactions are blocked by tranilast via inhibiting NF- κ B signaling. *Pharmacol Res*. 2017 Aug 31. pii: S1043-6618(17)30796-X.
- [3]. Ng, G. and A. Ohlsson, Cromolyn sodium for the prevention of chronic lung disease in preterm infants. *Cochrane Database Syst Rev*, 2012. 6: p. CD003059.

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