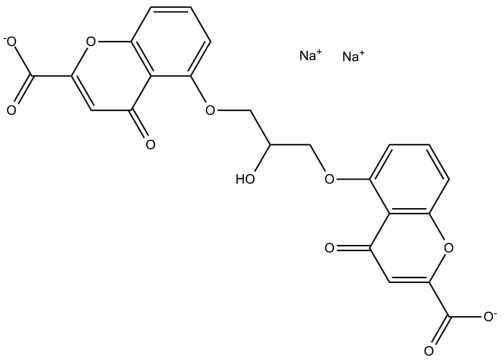
Product Data Sheet

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-oxochromene-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-κB 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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