
Product Data Sheet

Product Name: Chelidonic acid

Cat. No.: GC31886

Chemical Properties

Cas. No. 99-32-1

SMILES O=C(C1=CC(C=C(C(O)=O)O1)=O)OFormula C₇H₄O₆

M.Wt 184.1

Solubility DMSO: 25 mg/mL (135.80 mM); Water: 2.5 mg/mL (13.58 mM)

Storage Store at -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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Chelidonic acid is a pyran that has been found in *C. majus* and has diverse biological activities.^{1,2,3} It inhibits rat brain glutamate decarboxylase ($K_i = 1.2 \mu\text{M}$).² Chelidonic acid (20 mg/kg per day) reduces serum IL-6 and TNF- α levels, colonic COX-2 and prostaglandin E₂ levels, and the disease activity index score in a mouse model of ulcerative colitis induced by dextran sulfate sodium.¹ It inhibits ovalbumin challenge-induced decreases in spleen IFN- γ levels and increases in serum, spleen, and nasal mucosa IgE levels, spleen IL-4 levels, and nasal mucosa eosinophil and mast cell infiltration in a mouse model of ovalbumin-sensitized allergic rhinitis when administered at a dose of 2 mg/kg.³

1. Kim, D.-S., Kim, S.-J., Kim, M.-C., et al. The therapeutic effect of chelidonic acid on ulcerative colitis. *Biol. Pharm. Bull.* 35(5):666-671 (2012)
 2. Porter, T.G., and Martin, C.L. Chelidonic acid and other conformationally restricted substrate analogues as inhibitors of rat brain glutamate decarboxylase. *Biochem. Pharmacol.* 34(23):4145-4150 (1985)
 3. Oh, H.-A., Kim, H.-M., and Jeong, H.-J. Beneficial effects of chelidonic acid

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

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on a model of allergic rhinitisInt. Immunopharmacol.11(1)39-45(2011)

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