
Product Data Sheet

Product Name: Sodium Houttuynonate

Cat. No.: GC39128

Chemical Properties

Cas. No. 83766-73-8

SMILES O=S(C(O)CC(CCCCCCCC)=O)(O[Na])=O

Formula $C_{12}H_{23}NaO_5S$

M.Wt 302.36

Solubility DMSO: 5 mg/mL (16.54 mM; ultrasonic and warming and heat to 60°C)

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 size: ship with RT, or blue ice upon request.

Structure

Background

Sodium Houttuynonate, the active compound of the Houttuynia plant, is mainly used for treating purulent skin infections, respiratory tract infections, including pneumonia in elderly patients, and chronic bronchitis.

Treatment with sodium houttuynonate results in an increase in the expression of c-Fos protein in macrophages, while the phosphorylation level of extracellular signal-related kinase 1/2 (ERK1/2) is not affected by the treatment[2].

Sodium houttuynonate has been shown to protect against cationized bovine serum albumin (C-BSA)-induced glomerulonephritis in BALB/C mice through the suppression of the urine protein, morphological character and monocyte chemotactic protein 1 (MCP-1). In addition, sodium houttuynonate treatment has been shown to induce a respiratory burst and to increase the concentration of free calcium in macrophages, as well as increase IL-2 within T-cells. Sodium houttuynonate in the serum, stomach and intestine can be detected immediately by GC at 0.5 h. The concentration of sodium houttuynonate in the stomach gradually increases from 0.5–2 h, but is drastically reduced at 4 h.

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

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Furthermore, the concentration in the serum and intestine at 1–4 h decreases in a time-dependent manner, indicating that sodium houttuynonate can be quickly absorbed into the circulatory system and intestine and might be quickly distributed to other organs, such as trachea, lung, brain, heart and kidney[2].

[1] JUN LI, et al. Exp Ther Med. 2014, 7(6): 1639–1642. [2] Chen J, et al. Int J Mol Sci. 2014, 15(12):22978-94.

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