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## Product Data Sheet

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Product Name: Cyclocurcumin

Cat. No.: GC68923

**Chemical Properties**

Cas. No. 153127-42-5

Formula  $C_{21}H_{20}O_6$ 

M.Wt

368.38

Solubility

Storage

Store at  $-20^{\circ}\text{C}$ 

General tips

For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  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**

Cyclocurcumin is a potent **p38 $\alpha$**  inhibitor. Cyclocurcumin shows antirheumatic, antivasoconstrictive and antioxidant activities<sup>[1][2][3]</sup>.

Cyclocurcumin (10-40  $\mu\text{M}$ ; 18 h)  $\square$  LPS  $\square$  TNF- $\alpha$   $\square$ <sup>[1]</sup>

Cyclocurcumin (5-25  $\mu\text{M}$ )  $\square$  (IC<sub>50</sub>=14.9 $\pm$ 1.0  $\mu\text{M}$ )<sup>[2]</sup>

Cyclocurcumin (5-25  $\mu\text{M}$ ; 30 min)  $\square$  Cyclocurcumin  $\square$  |  $\square$   $\square$  Cyclocurcumin  $\square$ <sup>[2]</sup>

Cyclocurcumin  $\square$   $\cdot\text{OH}$   $\square$   $\cdot\text{OOH}$   $\square$  4' -OH  $\square$   $\cdot\text{OH}$   $\square$   $\cdot\text{OOH}$   $\square$ <sup>[3]</sup>

[1]. Fu M, et al. Cyclocurcumin, a curcumin derivative, exhibits immune-modulating ability and is a potential compound for the treatment of rheumatoid arthritis as predicted by the MM-PBSA method. *Int J Mol Med*. 2017 May;39(5):1164-1172.

[2]. Kim K, et al. Cyclocurcumin, an Antivasoconstrictive Constituent of *Curcuma longa* (Turmeric). *J Nat Prod*. 2017 Jan 27;80(1):196-200.

[3]. Li Y, et al. Antioxidant properties and free radical scavenging mechanisms of cyclocurcumin. *New Journal of Chemistry*, 2018, 42(15): 12698-12705.

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

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