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**Product Data Sheet**

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Product Name: trans-Chalcone

Cat. No.: GC61896

**Chemical Properties**

Cas. No. 614-47-1

SMILES O=C(C1=CC=CC=C1)/C=C/C2=CC=CC=C2Formula  $C_{15}H_{12}O$  M.Wt 208.26Solubility Storage Store at  $-20^{\circ}C$ 

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

Trans-Chalcone, the backbone of flavonoids, also is a potent fatty acid synthase (FAS) with  $IC_{50}$  of  $17.1 \mu g/mL$ , and  $\alpha$ -amylase inhibitor, causes cellcycle arrest and induces apoptosis in the breastcancer cell line MCF-7, exerting antifungal and anticancer activities.

[1] Bitencourt TA, et al. BMC Complement Altern Med. 2013 Sep 17;13:229. [2] Najafian M, et al. Mol Biol Rep. 2011 Mar;38(3):1617-20. [3] Bortolotto LF, et al. Biomed Pharmacother. 2017 Jan;85:425-433.

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

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