

Product Data Sheet

Product Name: Capsanthin

Cat. No.: GC43139

Chemical Properties

Cas. No. 465-42-9

SMILES CC(/C=C/C1=C(C)C[C@@H](O)CC1(C)C)=C\C=C\C(C)=C\C=C\C=C(C)\C=C\C=C(C)\C=C\C([C@@]2(C)C(C)(C)C[C@H](O)C2)=O

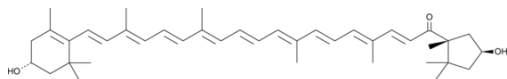
Formula C₄₀H₅₆O₃ M.Wt 584.9

Solubility DMF: miscible, DMSO: miscible, Ethanol: miscible, PBS (pH 7.2): soluble
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

Capsanthin is a carotenoid that has been found in red paprika and has diverse biological activities. It reduces hydrogen peroxide-induced production of reactive oxygen species (ROS) and phosphorylation of ERK and p38 and prevents inhibition of gap-junction intracellular communication in WB-F344 rat liver epithelial cells. Capsanthin (0.2 mg per animal) reduces the number of colonic aberrant crypt foci and preneoplastic lesions in a rat model of N-methylnitrosourea-induced colon carcinogenesis. It also reduces ear edema in a mouse model of inflammation induced by phorbol 12-myristate 13-acetate.

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

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