

Product Data Sheet

Product Name: (S)-Bromoenol lactone

Cat. No.: GC40679

Chemical Properties

Cas. No. 478288-94-7

SMILES Br/C=C1\CC[C@H](C(=O)O\1)c1cccc2ccccc12

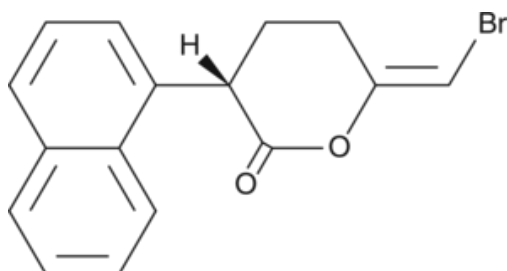
Formula C₁₆H₁₃BrO₂ M.Wt 317.2

Solubility DMF: 50 mg/ml, DMSO: 25 mg/ml, Ethanol: 5 mg/ml, PBS (pH 7.2): .05 mg/ml
Storage Store at -20°C, protect from light

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

The phospholipases are an extensive family of lipid hydrolases that function in cell signaling, digestion, membrane remodeling, and as venom components. The calcium-independent phospholipases (iPLA₂) are a PLA₂ subfamily closely associated with the release of arachidonic acid in response to physiologic stimuli. (S)-Bromoenol lactone ((S)-BEL) is an irreversible, chiral, mechanism-based inhibitor of calcium-independent phospholipase β (iPLA₂β) that inhibits the vasopressin-induced release of arachidonate from cultured rat aortic smooth muscle (A10) cells with an IC₅₀ value of 2 μM. (S)-BEL is more than 1,000-fold selective for iPLA₂ versus cPLA₂, and is 10-fold selective for iPLA₂β versus iPLA₂γ.

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

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