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**Product Data Sheet**

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Product Name: Effusol  
Cat. No.: GC60148

**Chemical Properties**

Cas. No. 73166-28-6

SMILES OC(C(C)=C1CC2)=CC=C1C3=C2C=C(O)C=C3C=C

Formula C<sub>17</sub>H<sub>16</sub>O<sub>2</sub> M.Wt 252.31

Solubility Storage

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**

Effusol, a phenolic constituent from *Juncus effuses*, exhibits potent scavenging activity for DPPH and ABTS radicals, with IC<sub>50</sub> values of 79 μM and 2.73 μM, respectively. Effusol rescues CA1 LTP attenuated by corticosterone, defending the hippocampal function against stress-induced cognitive decline[1].

[1]. Kim, Ye Jin, et al. Antioxidant and Cytotoxic Activity of Compounds from the Stem of *Juncus effuses*. *Journal of Applied Biological Chemistry*. Volume 57 Issue 1 / Pages.47-51 / 2014 / 1976-0442(pISSN). [2]. Haruna Tamano, et al. CA1 LTP Attenuated by Corticosterone Is Canceled by Effusol via Rescuing Intracellular Zn<sup>2+</sup> Dysregulation. *Cell Mol Neurobiol*. 2019 Oct;39(7):975-983.

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

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