Pheleuin
Item No. 19269

CAS Registry No.: 169195-23-7
Formal Name: 3-(2-methylpropyl)-6-(phenylmethyl)-2(1H)-pyrazinone
MF: C15H18N2O
FW: 242.3
Purity: ≥98%
UV/Vis.: λmax: 324 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Pheleuin is supplied as a crystalline solid. A stock solution may be made by dissolving the pheleuin in the solvent of choice. Pheleuin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of pheleuin in ethanol is approximately 5 mg/ml and approximately 20 mg/ml in DMSO and DMF. Pheleuin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, pheleuin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Pheleuin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Pheleuin is a pyrazinone derivative synthesized from a dipeptide aldehyde.1,2 Although the biological activity of this compound has not been reported, similar diketopiperazines are known to inhibit calpain and/or regulate S. aureus virulence factor expression.3,4

References