**Pheleuin**

**Item No. 19269**

**CAS Registry No.:** 169195-23-7  
**Formal Name:** 3-(2-methylpropyl)-6-(phenylmethyl)-2(1H)-pyrazinone  
**MF:** $C_{15}H_{18}N_2O$  
**FW:** 242.3  
**Purity:** ≥98%  
**UV/Vis.:** $\lambda_{\text{max}}$: 324 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

**Laboratory Procedures**

Pheleuin is supplied as a crystalline solid. A stock solution may be made by dissolving the pheleuin in the solvent of choice, which should be purged with an inert gas. Pheleuin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of pheleuin in these solvents is approximately 5 mg/ml in ethanol and 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 that has been found in human stool samples. It is produced by gut microbiota nonribosomal peptide synthetases.

**Reference**