Product Name: LUF 6283
CAS Number: 92933-48-7
IUPAC Name: 5-Butyl-1H-pyrazole-3-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₂N₂O₂·0.2H₂O
Batch Molecular Weight: 171.79
Physical Appearance: White solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>55.93</td>
<td>7.27</td>
<td>16.31</td>
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<tr>
<td>Found</td>
<td>56.13</td>
<td>7.2</td>
<td>16.14</td>
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</tbody>
</table>
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Description:
Partial agonist of hydroxycarboxylic acid receptor 2 (HCA₂) (Kᵢ = 0.55 μM). Thought to lower plasma very-low-density lipoprotein (VLDL)-triglyceride levels by affecting hepatic VLDL production in normolipidemic C57BL/6 mice.

Physical and Chemical Properties:
Batch Molecular Formula: C₉H₁₂N₂O₉·0.2H₂O
Batch Molecular Weight: 171.79
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: