Product Name: RSVA 405
Catalog No.: 5138  
Batch No.: 1
CAS Number: 140405-36-3
IUPAC Name: 2-[[4-(Diethyl amino)-2-hydroxyphenyl]methylene]hydrazide-4-pyridinecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{17}\text{H}_{20}\text{N}_4\text{O}_2 \)
Batch Molecular Weight: 312.37
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM, ethanol to 5 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
\( ^1\text{H} \text{NMR} \): Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>65.37</td>
<td>65.09</td>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
<td>17.94</td>
<td>17.8</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
AMP-activated protein kinase (AMPK) activator (EC50 = 1 μM); activates AMPK indirectly through a CaMKKβ-dependent mechanism. Also inhibits LPS-induced STAT3 phosphorylation (IC50 = 0.5 μM). Induces autophagy and promotes Aβ degradation in vitro. Also inhibits adipogenesis in vitro and reduces weight gain in diet-induced obese mice.

Physical and Chemical Properties:
Batch Molecular Formula: C17H19N3O2
Batch Molecular Weight: 312.37
Physical Appearance: Yellow solid
Minimum Purity: >98%

Storage: Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 50 mM
ethanol to 5 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: