Product Name: BAY 41-8543
Catalog No.: 5708
Batch No.: 1
CAS Number: 256498-66-5
IUPAC Name: 2-[(2-Fluorophenyl)methyl]-1H-pyrazolo[3,4-b]pyridin-3-yl]-5-(4-morpholinyl)-4,6-pyrimidinediamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{21}H_{21}FN_{8}O
Batch Molecular Weight: 420.44
Physical Appearance: Beige solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
{^1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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<tr>
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<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<td>5.03</td>
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<tr>
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<td>59.81</td>
<td>4.88</td>
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</table>
Product Name: BAY 41-8543
CAS Number: 256498-66-5
IUPAC Name: 2-[1-[(2-Fluorophenyl)methyl]-1H-pyrazolo[3,4-b]pyridin-3-yl]-5-(4-morpholinyl)-4,6-pyrimidinediamine

Description:
Guanylyl cyclase (sGC) stimulator. Increases activity of sGC by up to 92-fold at concentrations up to 100 μM. Induces relaxation of aorta, saphenous arteries, coronary arteries and veins in vitro. Inhibits collagen-induced platelet aggregation. Promotes lipid uptake into brown adipose tissue and increases energy expenditure in mice. Induces weight loss in obese mice. Antihypertensive.

Physical and Chemical Properties:
Batch Molecular Formula: C27H27F3N6O
Batch Molecular Weight: 420.44
Physical Appearance: Beige solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 10 mM with gentle warming

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: