Product Name: CP 154526
Catalog No.: 2779
Batch No.: 4
CAS Number: 257639-98-8
IUPAC Name: N-Butyl-N-ethyl-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{23}\text{H}_{32}\text{N}_4\text{HCl}$
Batch Molecular Weight: 400.99
Physical Appearance: White solid
Solubility: DMSO to 50 mM, ethanol to 50 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>68.89</td>
<td>68.79</td>
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<tr>
<td>Hydrogen</td>
<td>8.3</td>
<td>8.37</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>13.97</td>
<td>14.05</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Selective, non-peptide CRF₁ receptor antagonist (Kᵢ values are 2.7 and > 10000 nM for CRF₁ and CRF₂ receptors respectively). Blocks CRF-induced adenylate cyclase activation (Kᵢ = 3.7 nM) and attenuates activation of the HPA axis by CRF. Displays anxiolytic-like activity in the rat elevated plus-maze test; brain penetrant.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₂₉N₅.HCl
Batch Molecular Weight: 400.99
Physical Appearance: White solid
Minimum Purity: >99%

Solubility & Usage Info:
DMSO to 50 mM
ethanol to 50 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).

Licensing Information:
Sold for research purposes under agreement from Pfizer Inc.

References:
