# Product Specification Sheet

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>CP-690550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Number:</td>
<td>C2716-2 (powder) C2716-2s (10 mM in DMSO)</td>
</tr>
<tr>
<td>Package Size:</td>
<td>2 mg</td>
</tr>
</tbody>
</table>

## Technical Information:
- Chemical Formula: C₁₆H₂₀N₆O
- CAS #: 477600-75-2
- Molecular Weight: 312.38
- Purity: >98%
- Formulation: white solid
- Solubility: Soluble in DMSO up to 100 mM
- Chemical Name: 3-((3R,4R)-4-methyl-3-(methyl[7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino)piperidin-1-yl)-3-oxopropanenitrile
- Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

## Handling:
- For C2716-2 (powder), add 640 uL of DMSO to make 10 mM solution.
- For C2716-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

## Biological Activity:
CP-690,550 is a potent and selective JAK inhibitor currently in clinical trials for rheumatoid arthritis (RA) and other autoimmune disease indications. In enzyme assays it potently inhibited recombinant human kinase protein JAK1 (IC₅₀=3.2nM), JAK2 (IC₅₀=4.1nM) and JAK3 (IC₅₀=1.6nM), but in cellular assays it potently inhibited signaling through JAK1 and JAK3 with 5-100 fold selectivity over JAK2.

## Reference:

For Technical Support: technical@cellagentech.com

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