



## Certificate of Analysis

<b>MedKoo Cat#:</b> 200811	<b>Product Name:</b> Tofacitinib	<b>Lot#</b> A9T05K19
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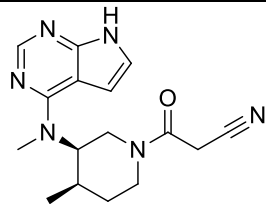
### Chemical name

3-((3R,4R)-4-Methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile

### Synonyms

CP-690550; Tofacitinib; tasocitinib.

### Chemical structure



### CAS# and Theoretical analysis

MedKoo Code#: 200811  
Name: Tofacitinib  
CAS#: 477600-75-2 (free base)  
Lot#: A9T05K19  
Chemical Formula: C<sub>16</sub>H<sub>20</sub>N<sub>6</sub>O  
Exact Mass: 312.16986  
Molecular Weight: 312.37

Analysis item	Specifications / Results
<b>Appearance</b>	White to off-white solid powder
<b>Structure</b>	<sup>1</sup> H-NMR and MS spectrum of the sample correspond to the data reported in the literature
<b>Purity (HPLC)</b>	>99.0%
<b>Solubility</b>	Soluble in DMSO at 100 mg/mL; in ethanol at 100 mg/mL; very poorly soluble in water.
<b>Conclusion</b>	This product conforms with MedKoo's quality standards
<b>Shipping condition</b>	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
<b>Storage condition</b>	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
<b>Shelf life</b>	At least 5 years if properly stored.

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**