

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

## CP 690550 citrate (Tofacitinib citrate)

### Product overview

<b>Name</b>	CP 690550 citrate (Tofacitinib citrate)
<b>Cat No</b>	HB1427
<b>Alternative names</b>	Tofacitinib citrate
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%
<b>Description</b>	Potent JAK inhibitor

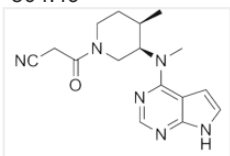
### Biological Data

<b>Biological description</b>	Potent JAK inhibitor. Inhibits JAK3, JAK2 and JAK1 (IC <sub>50</sub> values are 1, 20 and 112 nM respectively). Reduces pro-inflammatory cytokine release. Shows immunosuppressant actions.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(3 <i>R</i> ,4 <i>R</i> )-4-Methyl-3-(methyl-7 <i>H</i> -pyrrolo[2,3- <i>d</i> ]pyrimidin-4-ylamino)-β-oxo-1-piperidinepropanenitrile citrate
<b>Molecular Weight</b>	504.49
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>20</sub> N <sub>6</sub> O <sub>7</sub>
<b>CAS Number</b>	540737-29-9
<b>PubChem identifier</b>	10174505
<b>SMILES</b>	<chem>C[C@H]1[C@@H](N(C2=NC=NC3=C2=CN3)C)CN(C(C#N)=O)CC1.O=C(O)C(O)=O</chem>
<b>InChiKey</b>	SYIKUFDOYJFGBQ-YLAFAASESA-N

### References

**Examining the chirality, conformation and selective kinase inhibition of 3-((3*R*,4*R*)-4-methyl-3-(methyl(7*H*-pyrrolo[2,3-*d*]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile (CP-690,550).**

Jiang JK *et al* (2008) J Med Chem 51(24)

**PubMedID** [19053756](#)

**CP-690550 Treatment Ameliorates Established Disease and Provides Long-Term Therapeutic Effects in an SKG Arthritis Model.**

Oh K *et al* (2013) *Immune Netw* 13(6)

**PubMedID** [24385944](#)

**Discovery of CP-690,550: a potent and selective Janus kinase (JAK) inhibitor for the treatment of autoimmune diseases and organ transplant rejection.**

Flanagan ME *et al* (2010) *J Med Chem* 53(24)

**PubMedID** [21105711](#)

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