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DATASHEET

CP 690550 citrate (Tofacitinib citrate)

Product overview

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

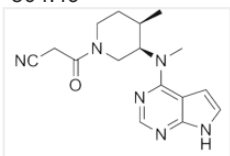
Biological Data

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

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

Chemical Data

Chemical name	(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
Molecular Weight	504.49
Chemical structure	
Molecular Formula	C ₁₆ H ₂₀ N ₆ O ₇
CAS Number	540737-29-9
PubChem identifier	10174505
SMILES	<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>
InChiKey	SYIKUFDYOYJFGBQ-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](#)
