



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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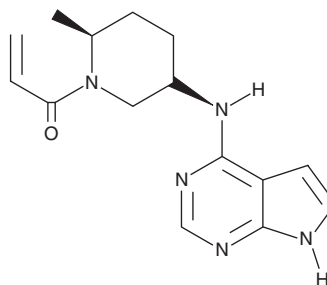
# PRODUCT INFORMATION



**PF-06651600**

Item No. 21054

**CAS Registry No.:** 1792180-81-4  
**Formal Name:** 1-[(2S,5R)-2-methyl-5-(7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-1-piperidinyl]-2-propen-1-one  
**Synonym:** Ritlecitinib  
**MF:** C<sub>15</sub>H<sub>19</sub>N<sub>5</sub>O  
**FW:** 285.3  
**Purity:** ≥95%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

## Laboratory Procedures

PF-06651600 is supplied as a solid. A stock solution may be made by dissolving the PF-06651600 in the solvent of choice, which should be purged with an inert gas. PF-06651600 is soluble in acetonitrile and DMSO.

## Description

PF-06651600 is a covalent inhibitor of JAK3 (IC<sub>50</sub> = 33.1 nM).<sup>1</sup> It is selective for JAK3 over JAK1, JAK2, and tyrosine kinase 2 (TYK2; IC<sub>50</sub>s = >10,000 for all) and a panel of 304 other kinases at 1 μM. PF-06651600 inhibits STAT5, STAT6, and STAT3 phosphorylation induced by IL-2, IL-4, or IL-21, respectively, in isolated human lymphocytes (IC<sub>50</sub>s = 244, 340, and 350 nM, respectively). It inhibits T cell differentiation into the T helper cells Th1 and Th17 in a T cell differentiation assay (IC<sub>50</sub>s = 30 and 167 nM, respectively). PF-06651600 (3, 10, or 30 mg/kg) reduces paw swelling in a rat model of adjuvant-induced arthritis. It also decreases disease severity in a mouse model of experimental autoimmune encephalomyelitis (EAE) when administered at doses of 30 or 100 mg/kg. Formulations containing PF-06651600 have been used in the treatment of severe alopecia in adults and adolescents.

## Reference

1. Telliez, J.-B., Dowty, M.E., Wang, L., *et al.* Discovery of a JAK3-selective inhibitor: Functional differentiation of JAK3-selective inhibition over pan-JAK or JAK1-selective inhibition. *ACS Chem. Biol.* **11**(12), 3442-3451 (2016).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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