

Product Datasheet

Decernotinib

Catalog No. **BP-02498** · CAS **944842-54-0** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

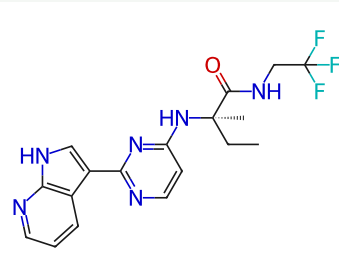
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Target JAK	Research area Inflammation/Immunology
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Molecular formula **C₁₈H₁₉F₃N₆O**

Molecular weight **392.3783**

STRUCTURE



DESCRIPTION

Decernotinib is a potent, orally active JAK3 inhibitor, with Kis of 2.5, 11, 13 and 11 nM for JAK3, JAK1, JAK2, and TYK2, respectively.

BIOLOGICAL ACTIVITY

Decernotinib is a potent and selective Janus kinase 3 (JAK3) inhibitor with Ki of 2.5 nM; IC50 is 50-170 nM in cellular assays. Decernotinib (VX-509) potently inhibits JAK3 in enzyme assays (Ki = 2.5 nM + 0.7 nM) and cellular assays dependent on JAK3 activity (IC50 range, 50-170 nM), with limited or no measurable potency against other JAK isotypes or non-JAK kinases.

SOLUBILITY

Soluble in DMSO;H2O

REFERENCES

[1]. Mahajan S, et al. VX-509 is a potent and selective Janus kinase 3 (JAK3) inhibitor that attenuates inflammation in animal models of autoimmune disease. J Pharmacol Exp Ther. 2015 Mar 11. pii: jpet.114.221176.

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