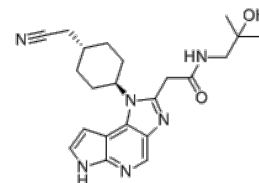


Product Name : JNJ-64251330
Cat. No. : PC-21596
CAS No. : 2230282-02-5
Molecular Formula : C₂₂H₂₈N₆O₂
Molecular Weight : 408.51
Target : JAK
Solubility : 10 mM in DMSO



CAS: 2230282-02-5

Biological Activity

Lorpucitinib (JNJ-64251330) is potent, selective and orally bioavailable **pan-JAK** inhibitor with IC₅₀ of 0.37/8.6/92/7.4 nM for **JAK1/JAK2/JAK3/Tyk2** respectively.

Lorpucitinib (JNJ-64251330) shows comparable potency to tofacitinib in an IFN α -stimulated STAT4 (54 nM and 31 nM, respectively) and an IL-12-stimulated STAT4 (257 nM and 440 nM, respectively) assay.

Lorpucitinib (JNJ-64251330) is 5-6 fold less potent in GM-CSF-stimulated pSTAT5 (303 nM and 51 nM, respectively) and IL-2-stimulated pSTAT5 (61 nM and 12 nM, respectively) assays.

Lorpucitinib (JNJ-64251330) is a GI tract-restricted JAK inhibitor that selectively inhibited cytokine responses in colonic tissue and not in plasma.

References

Kristi A Leonard, et al. *J Med Chem.* 2020 Mar 26;63(6):2915-2929.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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