Catalog # 10-5145

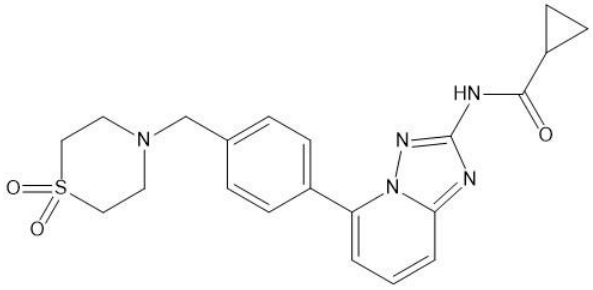
Filgotinib

CAS# 1206161-97-8

N-[5-[4-[(1,1-dioxido-4-thiomorpholinyl)methyl]phenyl][1,2,4]triazolo[1,5-α]pyridin-2-yl]-cyclopropanecarboxamide

GLPG0634; GS-6034

Lot # X109317



Filgotinib is a potent and selective JAK1 inhibitor (IC_{50}s=10, 28, 810 and 116 nM for JAK1, JAK2, JAK3 and TYK2 respectively.[2] Displays potent anti-inflammatory activity in various models.[1,2] Effective as a monotherapy in patients with active rheumatoid arthritis.[3] Reverses oncostatin M-mediated inhibition of rat stem Leydig cell differentiation.[4]

1) Menet *et al*. (2014), *Triazolopyridines as selective JAK1 inhibitors: from hit identification to GLPG0634*; J. Med. Chem., **57** 9323
2) Rompaey *et al*. (2013), *Preclinical characterization of GLPG0634, a selective inhibitor of JAK1, for the treatment of inflammatory diseases*; J. Immunol., **191** 3568
3) Kavanaugh *et al*. (2017), *Filgotinib (GLPG0634/GS-6034), an oral selective JAK1 inhibitor, is effective as monotherapy in patients with active rheumatoid arthritis: results from a randomized dose-finding study (DARWIN 2)*; Ann. Rheum. Dis., **76** 1009
4) Wang *et al.* (2019), *Oncostatin M inhibits differentiation of rat stem Leydig cells in vivo and in vitro*; J. Cell. Mol. Med., **23** 426

PHYSICAL DATA

Molecular Weight:	425.50
Molecular Formula:	$C_{21}H_{23}N_5O_3S$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 1 month.

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