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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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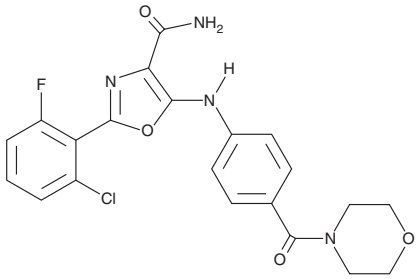
PRODUCT INFORMATION

SAR20347

Item No. 29248

CAS Registry No.:	1450881-55-6
Formal Name:	2-(2-chloro-6-fluorophenyl)-5-[[4-(4-morpholinylcarbonyl)phenyl]amino]-4-oxazolecarboxamide
MF:	$C_{21}H_{18}ClFN_4O_4$
FW:	444.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

SAR20347 is supplied as a solid. A stock solution may be made by dissolving the SAR20347 in the solvent of choice, which should be purged with an inert gas. SAR20347 is soluble in the organic solvent DMSO.

Description

SAR20347 is an inhibitor of the JAK family kinases TYK2 and JAK1-3 (IC_{50}s = 0.6, 23, 26, and 41 nM, respectively, in cell-free assays).[1] It inhibits IL-12-induced TYK2-dependent phosphorylation of STAT4 in NK-92 cells (IC_{50} = 126 nM) and IL-6-induced JAK1-dependent STAT3 signaling in TF-1 cells (IC_{50} = 345 nM). SAR20347 (5 µM) inhibits IL-12-induced INF-γ production and reporter gene activity in peripheral blood mononuclear cells (PBMCs). *In vivo*, SAR20347 (60 mg/kg) inhibits the production of serum IFN-γ in mice. SAR20347 also reduces keratinocyte activation and skin levels of IL-12, IL-23, IL-6, IL-22, and IFN-γ in a mouse model of psoriasis induced by imiquimod (Item No. 14956).

Reference

1. Works, M.G., Yin, F., Yin, C.C., *et al.* Inhibition of TYK2 and JAK1 ameliorates imiquimod-induced psoriasis-like dermatitis by inhibiting IL-22 and the IL-23/IL-17 axis. *J. Immunol.* **193(7),** 3278-3287 (2014).

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