SZABO SCANDIC

Part of Europa Biosite

Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

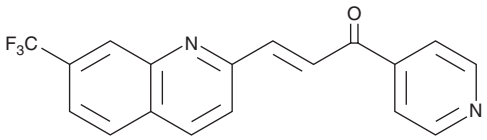
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

PFK158

Item No. 22987

CAS Registry No.:	1462249-75-7
Formal Name:	1-(4-pyridinyl)-3-[7-(trifluoromethyl)-2E-quinolinyl]-2-propen-1-one
MF:	$C_{18}H_{11}F_3N_2O$
FW:	328.3
Purity:	≥95%
UV/Vis.:	λ_{max}: 280, 323 nm
Supplied as:	A crystalline 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

PFK158 is supplied as a crystalline solid. A stock solution may be made by dissolving the PFK158 in the solvent of choice. PFK158 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of PFK158 in these solvents is approximately 1 and 33 mg/ml, respectively.

PFK158 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PFK158 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. PFK158 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PFK158 is an inhibitor of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3; IC_{50} = 137 nM for human recombinant PFKFB3).[1] It inhibits PFKFB3 and glycolysis in Jurkat cells (IC_{50}s = 1.6 and 0.847 µM, respectively). PFK158 inhibits the growth of leukemia cells *in vitro* (IC_{50} = 0.33 µM for Jurkat cells) and reduces tumor volume in CT-26 murine colon carcinoma syngeneic model and a BxPC-3 pancreatic cancer mouse xenograft model. PFK158 also enhances activity of the anti-CTLA-4 antibody in the B16/F10 mouse model of melanoma.[2]

References

1. Chand, P., and Tapolsky, G.H. Pfkfb3 inhibitor and methods of use as an anti-cancer therapeutic. **PCT/US2013/031159**, (2013).
2. Chesney, J., Telang, S., and Yaddanapudi, K. Combinations of pfkfb3 inhibitors and immune checkpoint inhibitors to treat cancer. **PCT/US2016/034590**, (2016).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM