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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

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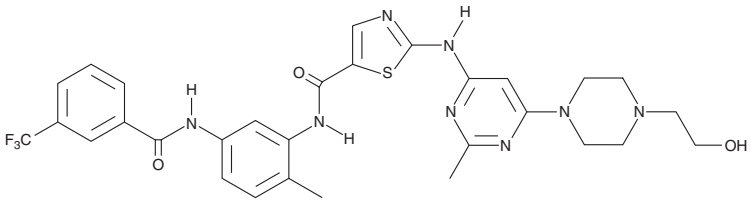
PRODUCT INFORMATION

UM-164

Item No. 26188

CAS Registry No.:	903564-48-7
Formal Name:	2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-N-[2-methyl-5-[[3-(trifluoromethyl)benzoyl]amino]phenyl]-5-thiazolecarboxamide
MF:	$C_{30}H_{31}F_3N_8O_3S$
FW:	640.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 230, 324 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

UM-164 is supplied as a crystalline solid. A stock solution may be made by dissolving the UM-164 in the solvent of choice. UM-164 is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 5 mg/ml.

Description

UM-164 is an inhibitor of Src and p38 MAPK kinases (K_ds = 2.7, 2.2, and 5.5 nM for c-Src, p38α, and p38β, respectively).[1] It also inhibits Fyn, Yes, Lyn, Abl, Arg, Ack, Csk, EphB2, EphB4, and Zak by greater than 75% in a kinome profiling assay using MDA-MB-231 cell lysates when used at a concentration of 500 nM. UM-164 inhibits cell growth in a panel of triple-negative breast cancer (TNBC) cell lines (IC_{50}s = 6.1-260 nM) and in a patient-derived TNBC cell line (IC_{50} = 320 nM). In MDA-MB-231 and SUM149 cells, UM-164 (1 µM) induces cell cycle arrest at the G_1/S phase and inhibits cell motility and invasion when used at concentrations greater than or equal to 50 nM. UM-164 (≥10 mg/kg) reduces tumor growth in SUM149 and MDA-MB-231 mouse xenograft models.

Reference

1. Gilani, R.A., Phadke, S., Bao, L.W., *et al.* UM-164: A potent c-Src/p38 kinase inhibitor with *in vivo* activity against triple-negative breast cancer. *Clin. Cancer Res.* **22(20)**, 5087-5096 (2016).

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