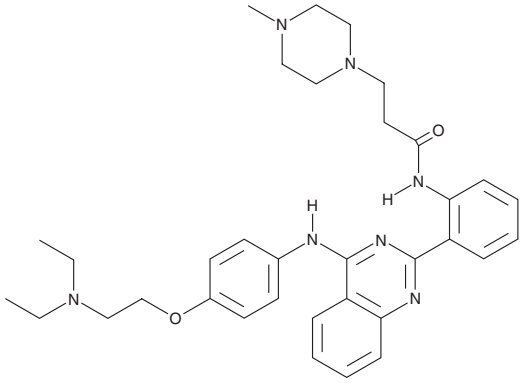
PRODUCT INFORMATION

hVEGF-IN-1

Item No. 37550



CAS Registry No.:	1637443-98-1
Formal Name:	N-[2-[4-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-2-quinazolinyl]phenyl]-4-methyl-1-piperazinepropanamide
Synonym:	Human Vascular Endothelial Growth Factor Inhibitor 1
MF:	$C_{34}H_{43}N_7O_2$
FW:	581.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 241 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

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

Laboratory Procedures

hVEGF-IN-1 is supplied as a solid. A stock solution may be made by dissolving the hVEGF-IN-1 in the solvent of choice, which should be purged with an inert gas. hVEGF-IN-1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of hVEGF-IN-1 in DMSO is approximately 2 mg/ml and approximately 25 mg/ml in ethanol and DMF.

Description

hVEGF-IN-1 is an inhibitor of *VEGFA* translation.[1] It binds to the mRNA encoding VEGF-A (K_d = 4.64 µM) and decreases its translation when used at a concentration of 1.5 µM. hVEGF-IN-1 (3 µM) reduces migration of MCF-7 breast cancer cells. It decreases tumor growth and weight without reducing body weight in an MCF-7 mouse xenograft model when administered at a dose of 7.5 mg/kg per day.

Reference

1. Wang, S.-K., Wu, Y., Wang, X.-Q., *et al.* Discovery of small molecules for repressing cap-independent translation of human vascular endothelial growth factor (hVEGF) as novel antitumor agents. *J. Med. Chem.* **60(13),** 5306-5319 (2017).

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