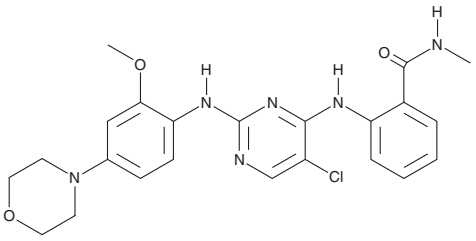
PRODUCT INFORMATION

NVP-TAE226

Item No. 17685

CAS Registry No.:	761437-28-9
Formal Name:	2-[[5-chloro-2-[[2-methoxy-4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]amino]-N-methyl-benzamide
Synonym:	TAE226
MF:	$C_{23}H_{25}ClN_6O_3$
FW:	468.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 285 nm
Supplied as:	A crystalline 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

NVP-TAE226 is supplied as a crystalline solid. A stock solution may be made by dissolving the NVP-TAE226 in the solvent of choice, which should be purged with an inert gas. NVP-TAE226 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of NVP-TAE226 in these solvents is approximately 10 and 30 mg/ml, respectively.

NVP-TAE226 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NVP-TAE226 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. NVP-TAE226 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

NVP-TAE226 is an inhibitor of focal adhesion kinase (FAK; IC_{50} = 5.5 nM) and the related protein-rich tyrosine kinase 2-β (PYK2β; IC_{50} = 5 nM).[1] It can also inhibit the insulin-like growth factor 1 receptor (IC_{50} = 0.16 µM) as well as the activity of its downstream target genes such as MAPK and Akt.[1] NVP-TAE226 has been shown to inhibit glioma and ovarian tumor growth in *in vivo* tumor models.[2]

References

1. Liu, T.-J., LaFortune, T., Honda, T., *et al.* Inhibition of both focal adhesion kinase and insulin-like growth factor-I receptor kinase suppresses glioma proliferation *in vitro* and *in vivo*. *Mol. Cancer Ther.* **6(4)**, 1357-1367 (2007).
2. Halder, J., Lin, Y.G., Merritt, W.M., *et al.* Therapeutic efficacy of a novel focal adhesion kinase inhibitor TAE226 in ovarian carcinoma. *Cancer Research* **67(22)**, 10976-10983 (2007).

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