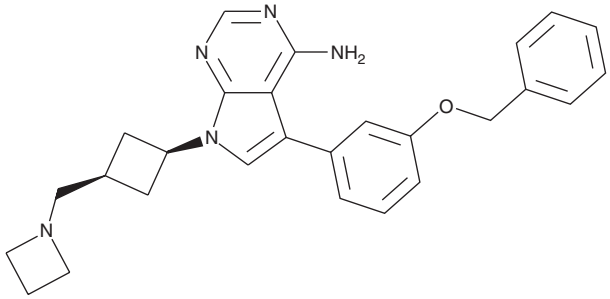
PRODUCT INFORMATION

NVP-AEW541

Item No. 33946

CAS Registry No.: 475489-16-8
Formal Name: 7-[*cis*-3-(1-azetidinylmethyl)cyclobutyl]-5-[3-(phenylmethoxy)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine
MF: $C_{27}H_{29}N_5O$
FW: 439.6
Purity: ≥95%
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

NVP-AEW541 is supplied as a solid. A stock solution may be made by dissolving the NVP-AEW541 in the solvent of choice, which should be purged with an inert gas. NVP-AEW541 is soluble in DMSO.

Description

NVP-AEW541 is an inhibitor of insulin-like growth factor 1 receptor (IGF-1R; IC_{50} = 0.15 µM in a cell-free assay).[1] It is selective for IGF-1R over a panel of 20 kinases but also inhibits the insulin receptor (InsR), VEGFR1, FMS-related tyrosine kinase 3 (FLT3), and tunica interna endothelial cell kinase 2 (Tie2; IC_{50}s = 0.14, 0.6, 0.42, and 0.53 µM, respectively, in cell-free assays). NVP-AEW541 selectively inhibits the autophosphorylation of IGF-1R over InsR, EGFR, PDGFR, c-Kit, and Bcr-Abl in cells (IC_{50}s = 0.086, 2.3, >10, >10, >5, and >10 µM, respectively). It reduces tumor volume in an NWT-21 murine fibrosarcoma model when administered at doses of 20, 30, or 50 mg/kg twice per day.

Reference

1. García-Echeverría, C., Pearson, M.A., Marti, A., *et al.* *In vivo* antitumor activity of NVP-AEW541—a novel, potent, and selective inhibitor of the IGF-IR kinase. *Cancer Cell* **5(3),** 231-239 (2004).

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