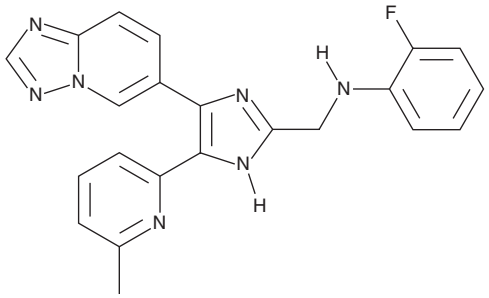
PRODUCT INFORMATION

EW-7197

Item No. 19231

CAS Registry No.:	1352608-82-2
Formal Name:	N-(2-fluorophenyl)-5-(6-methyl-2-pyridinyl)-4-[1,2,4]triazolo[1,5-a]pyridin-6-yl-1H-imidazole-2-methanamine
Synonym:	Vactosertib
MF:	$C_{22}H_{18}FN_7$
FW:	399.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 229, 306 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

EW-7197 is supplied as a crystalline solid. A stock solution may be made by dissolving the EW-7197 in the solvent of choice, which should be purged with an inert gas. EW-7197 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of EW-7197 in these solvents is approximately 30 mg/ml.

EW-7197 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, EW-7197 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. EW-7197 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

EW-7197 is a potent inhibitor of activin receptor-like kinase 5 (ALK5, also known as TGF-β receptor type 1; IC_{50} = 12.9 nM).[1,2] It also inhibits ALK2 and ALK4 at nanomolar concentrations.[2] EW-7197 blocks TGF-β/Smad signaling, cell migration, invasion, and lung metastasis in mouse mammary tumor virus/c-Neu mice and 4TI orthotopic-grafted mice.[2] It also inhibits epithelial-to-mesenchymal transition (EMT) in TGF-β-treated breast cancer cells.[2] EW-7197 is used to block TGF-β signaling and EMT in animal models of cancer and fibrosis.[3-5]

References

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2. Son, J.Y., Park, S.-Y., Kim, S.-J., *et al. Mol. Cancer Ther.* **13(7)**, 1704-1716 (2014).
3. Kaowinn, S., Kim, J., Lee, J., *et al. Oncotarget* **8(3)**, 5092-5110 (2017).
4. Kim, M.-J., Park, S.-A., Kim, C.H., *et al. Cell Physiol. Biochem.* **38(2)**, 571-588 (2016).
5. Yoon, J.-H., Jung, S.M., Park, S.H., *et al. EMBO Mol. Med.* **5(11)**, 1720-1739 (2013).

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