

Product Data Sheet

Product Name: Debio 0123 (hydrochloride)

Cat. No.: GC92030

Chemical Properties

Cas. No.

Chemical Name 3-(2,6-dichlorophenyl)-2,3-dihydro-1-methyl-7-[[3-methyl-4-(1-methyl-4-piperidinyl)phenyl]amino]-pyrimido[4,5-d]pyrimidin-4(1H)-one, hydrochloride

SMILES O=C1C2=CN=C(NC3=CC=C(C4CCN(CC4)C)C(C)=C3)N=C2N(CN1C5=C(Cl)C=CC=C5Cl)C.Cl

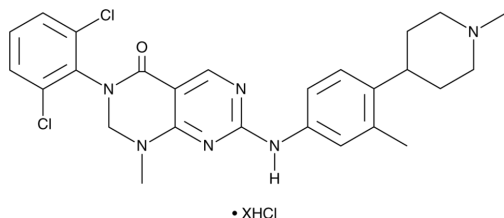
Formula $C_{26}H_{28}Cl_2N_6O \cdot XHCl$ M.Wt 511.4

Solubility Methanol: Soluble Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Debio 0123 is an inhibitor of the checkpoint kinase WEE1 ($IC_{50} = 0.8 \text{ nM}$).¹ *In vivo*, debio 0123 (30 mg/kg per day), in combination with the inhibitor of topoisomerase II etoposide, reduces tumor volume in a patient-derived xenograft (PDX) mouse model of stomach cancer.²

References:

- [1]. Hewitt, P., Burkamp, F., Wilkinson, A., et al. Pyrimidopyrimidones useful as WEE-1 kinase inhibitors (2018).
- [2]. Rodrigo Imedio, E., Piggott, L., Bellon, A., et al. Methods of treating small cell lung cancer (2023).

Caution: Product has not been fully validated for medical applications. For research use only.

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