



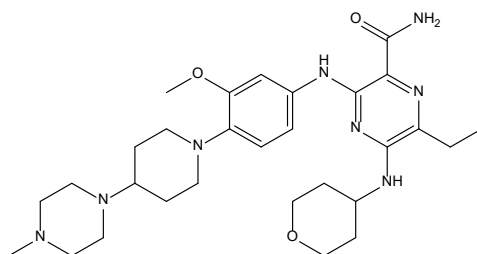
Catalog # 10-4170

Gilteritinib

CAS# 1254053-43-4

6-Ethyl-3-[3-methoxy-4-[4-(4-methylpiperazin-1-yl)piperidin-1-yl]anilino]-5-(oxan-4-ylamino)pyrazine-2-carboxamide;
ASP2215

Lot # FBS2173



Gilteritinib is a potent inhibitor of FLT3 ($IC_{50} = 5$ nM, wild-type FLT3) with more potent activity against all FLT3 mutants.¹ It also potently inhibits Axl ($IC_{50} = 41$ nM). Clinically useful in the treatment of acute myeloid leukemia. Gilteritinib has also been shown to inhibit glutamine uptake and utilization *via* downregulation of glutamine transporters.²

- 1) Lee *et al.* (2017) *Preclinical studies of gilteritinib, a next-generation FLT3 inhibitor*; Blood **129** 257
- 2) Thomas *et al.* (2021) *Gilteritinib Inhibits Glutamine Uptake and Utilization in FLT-3-ITD-Positive AML*; Mol. Cancer Ther. **20** 2207

PHYSICAL DATA

Molecular Weight: 552.72
Molecular Formula: $C_{29}H_{44}N_8O_3$
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (25 mg/ml)
Physical Description: Off-white to pale pink solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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