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**Product Data Sheet**

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Product Name: LY-2584702 hydrochloride

Cat. No.: GC36505

**Chemical Properties**

Cas. No. 1082948-81-9

SMILES CN1C=C(C2=CC=C(F)C(C(F)(F)F)=C2)N=C1C3CCN(C4=C5C(NN=C5)=NC=N4)CC3.[H]ClFormula  $C_{21}H_{20}ClF_4N_7$  M.Wt 481.88

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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**

LY2584702 is a selective, ATP-competitive p70S6K inhibitor with IC50 of 4 nM. Phase 1.

In HCT116 colon cancer cells, LY2584702 inhibits phosphorylation of the S6 ribosomal protein (pS6) with IC50 of 0.1-0.24 μM. [1] LY2584702 has significant synergistic effects when combined with EGFR inhibitor erlotinib or with the mTOR inhibitor everolimus. [2]

LY2584702 (12.5 mg/kg BID), demonstrates significant antitumor efficacy in both U87MG glioblastoma and HCT116 colon carcinoma xenograft models. [1]

[1] Tolcher A, et al. Eur J Cancer. 2014, 50(5), 867-875. [2] Hollebecque A, et al. Eur J Cancer. 2014, 50(5), 876-884.

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

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