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**Product Data Sheet**

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Product Name: DS-7423  
Cat. No.: GC62495

**Chemical Properties**

Cas. No. 1222104-37-1

Formula  $C_{22}H_{27}F_3N_{10}O_2$  M.Wt 520.51

Solubility 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**

DS-7423 is a dual PI3K and mTOR inhibitor, with IC<sub>50</sub> values of 15.6 nM, 34.9 nM for PI3K $\alpha$  and mTOR, respectively. DS-7423 possesses anti-tumor activity[1][2].

DS-7423 increases TP53 expression, the level of p-TP53 on Ser-46, and induced apoptosis-related TP53 target genes (TP53AIP1 and PUMA) in OCCC cells[1]. DS-7423 also inhibits other isoforms of class I PI3K (IC<sub>50</sub> values: PI3K $\beta$  = 1,143 nM; PI3K $\gamma$  = 249 nM; PI3K $\delta$  = 262 nM)[2].

[1]. Katsutoshi Oda, et al. Characterization of TP53 and PI3K signaling pathways as molecular targets in gynecologic malignancies. J Obstet Gynaecol Res. 2016 Jul;42(7):757-62.

[2]. Tomoko Kashiya, et al. Antitumor activity and induction of TP53-dependent apoptosis toward ovarian clear cell adenocarcinoma by the dual PI3K/mTOR inhibitor DS-7423. PLoS One. 2014 Feb 4;9(2):e87220.

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

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