

Product Data Sheet

Product Name: DB2313 (hydrochloride)

Cat. No.: GC91805

Chemical Properties

Cas. No. N/A

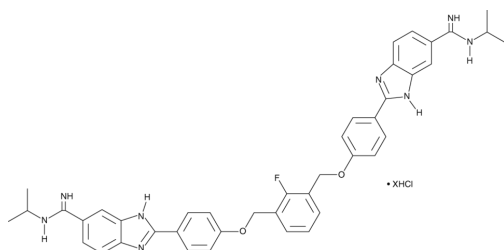
Formula $C_{42}H_{41}FN_8O_2 \cdot XHCl$ M.Wt 708.8

Solubility DMSO: 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

DB2313 is an inhibitor of the transcription factor PU.1 ($IC_{50} = 14 \text{ nM}$).^[1] Long-term exposure of DB2313 (300 nM) to $Kit^+/Sca-1^+/Lin^-$ hematopoietic stem progenitor cells (KSL-HSPCs) reduces colony formation. DB2313 (700 nM) decreases ovalbumin-induced reprogramming of isolated mouse neutrophils into antigen-presenting cells.^[2] It decreases tumor growth, weight, and volume in a U87MG glioblastoma multiforme mouse xenograft model when administered at a dose of 10 mg/kg per day.^[3]

References:

[1].Antony-Debré, I., Paul, A., Leite, J., et al. Pharmacological inhibition of the transcription factor PU.1 in leukemia. *J. Clin. Invest.* 127(12):4297-4313(2017).

[2].Mysore, V., Cullere, X., Mears, J., et al. FcγR engagement reprograms neutrophils into antigen cross-presenting cells that elicit acquired anti-tumor immunity. *Nat. Commun.* 12(1):4791(2021).

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

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[3].Zhang, S., Zhao, S., Qi, Y., et al.SPI1-induced downregulation of FTO promotes GBM progression by regulating pri-miR-10a processing in an m6A-dependent mannerMol. Ther. Nucleic Acids27699-717(2022).

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