

Product Data Sheet

Product Name: EBV lytic cycle inducer-1

Cat. No.: GC73260

Chemical Properties

Cas. No. 394668-43-0

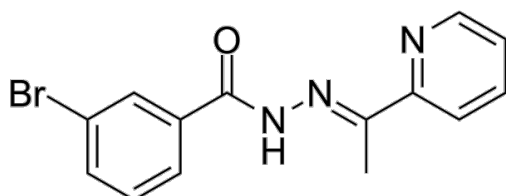
Formula $C_{14}H_{12}BrN_3O$ M.Wt 318.17

Solubility DMSO : 12.5 mg/mL (39.29 mM); ultrasonic and warming and heat to 60°C) Storage -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

Epstein-Barr virus (EBV) lytic cycle inducer-1 Dp44mT (compound C7) is an iron-chelator-like compound. Dp44mT cooperates with HDAC inhibitor Romidespin and SAHA to induce EBV lytic cycle. Dp44mT reactivates EBV lytic cycle by activating the ERK1/2-autophagy axis in epithelial cancers.

Dp44mT (compound C7) (0-80 μ M; 48 h) induces lytic cycle in cell line-dependent manner, with

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higher toxicity in AGS-BX1 than in AGS[1].Dp44mT (10 μ M; 0-72 h) induces lytic cycle in a time-dependent manner[1].Dp44mT (1.25-2.5 μ M; 24 h) cooperates with HDAC inhibitor Romidespin and SAHA to induce EBV lytic cycle[1].Dp44mT (20 μ M; 48 h) leads to the EBV lytic cycle through induction of the ERK-autophagy axis[2].

References:

[1]. Chung King Choi, et al. Identification of Novel Small Organic Compounds with Diverse Structures for the Induction of Epstein-Barr Virus (EBV) Lytic Cycle in EBV-Positive Epithelial Malignancies. PLoS One. 2015 Dec 30;10(12):e0145994. [2]. Stephanie Pei Tung Yiu, et al. Intracellular Iron Chelation by a Novel Compound, C7, Reactivates Epstein-Barr Virus (EBV) Lytic Cycle via the ERK-Autophagy Axis in EBV-Positive Epithelial Cancers Cancers 2018 Dec; 10(12): 505.

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