

Product Data Sheet

Product Name: BTYNB IMP1 Inhibitor

Cat. No.: GC42986

Chemical Properties

Cas. No. 304456-62-0

SMILES O=C(N)C1=CC=CC=C1/N=C/C2=CC=C(Br)S2

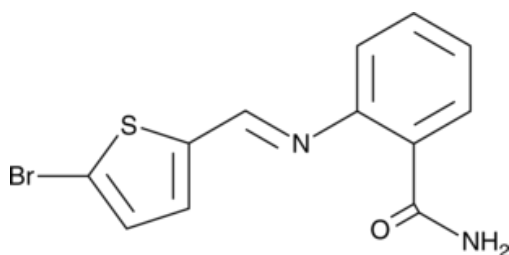
Formula C₁₂H₉BrN₂OS M.Wt 309.2

Solubility Soluble in DMSO Storage 4°C, protect from light

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

BTYNB IMP1 inhibitor is an inhibitor of the oncofetal mRNA-binding protein IMP1 (IC₅₀ = 5 μM for IMP1 binding to c-Myc mRNA). [1] It downregulates c-Myc and β-TrCP1 mRNA and reduces IMP1 protein levels in SK-MEL-2 and IGROV-1 cells. BTYNB IMP1 inhibits proliferation of IMP1-positive ES-2, IGROV-1, and SK-MEL-2 cells (IC₅₀s = 2.3, 3.6, and 4.5 μM, respectively) but not IMP1-negative BG-1 and T47D-KBluc cells (IC₅₀s = >50 μM for both). It also inhibits anchorage-independent growth of SK-MEL-2 cells when used at a concentration of 10 μM.

Reference:

[1]. Mahapatra, L., Andruska, N., Mao, C., et al. A novel IMP1 inhibitor, BTYNB, targets c-Myc and inhibits melanoma and ovarian cancer cell proliferation. *Transl. Oncol.* 10(5), 818-827 (2017).

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

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