

Product Data Sheet

Product Name: A-620223

Cat. No.: GC79060

Chemical Properties

Cas. No. 272769-49-0

Formula $C_{16}H_{22}N_4O$

M.Wt 286.37

Solubility Storage Store at 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

A-620223 is a PARP-1 inhibitor with a K_i of 8 nM against PARP-1 and EC₅₀ of 3 nM in a whole cell assay. A-620223 demonstrates good in vivo efficacy in a B16F10 subcutaneous murine melanoma model in combination with Temozolomide (TMZ) and in an MX-1 breast xenograph model in combination with Cisplatin. A-620223 can be used for the studies of melanoma and breast cancer [1].

In Vivo, A-620223 (1-25 mg/kg, s.c., successive administration for 7-14 days) demonstrates excellent potentiation of two cytotoxic agents, Temozolomide and Cisplatin, in both a mouse melanoma and a

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

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breast cancer model^[1].

References:

[1]. Penning TD, et al. Discovery and SAR of 2-(1-propylpiperidin-4-yl)-1H-benzimidazole-4-carboxamide: A potent inhibitor of poly(ADP-ribose) polymerase (PARP) for the treatment of cancer. Bioorg Med Chem. 2008 Jul 15;16(14):6965-75.

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