

Product Data Sheet

Product Name: BYK 204165

Cat. No.: GC10690

Chemical Properties

Cas. No. 1104546-89-5

Chemical Name (4E)-4-[(1-methylpyrrol-2-yl)methylidene]isoquinoline-1,3-dione

SMILES CN1C=CC=C1C=C2C3=CC=CC=C3C(=O)NC2=O

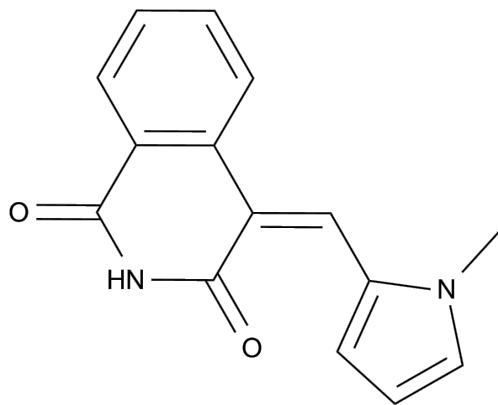
Formula $C_{15}H_{12}N_2O_2$ M.Wt 252.27

Solubility <25.23mg/ml in DMSO Storage Desiccate at 4°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

BYK 204165 is a potent and selective poly(ADP-ribose) polymerase (PARP)-1 inhibitor with pIC50 values of 5.38 and 7.35 for PARP-2 and PARP-1 respectively [1].

PARP1 is a nuclear enzyme activated by strand breaks in DNA and involved in the regulation of various cell processes such as DNA repair, apoptosis, organ dysfunction or necrosis [1].

BYK 204165 (PARP inhibitor XIV) is a cell-permeable isoquinolinedione compound that potently and selectively inhibits PARP1. BYK 204165's potency is similar or higher than most current standard

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

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PARP-1 inhibitors (just slightly lower than PJ34), and it is 100-fold selective for PARP-1 over PARP-2 [1].

BYK 204165 was not tested in vivo because of BYK its poor water solubility.

References:

[1]. Eltze T, Boer R, Wagner T, et al. Imidazoquinolinone, imidazopyridine, and isoquinolindione derivatives as novel and potent inhibitors of the poly(ADP-ribose) polymerase (PARP): a comparison with standard PARP inhibitors. *Mol Pharmacol*, 2008, 74(6): 1587-98.

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