

Product Data Sheet

Product Name: CB7993113

Cat. No.: GC72826

Chemical Properties

Cas. No. 819827-50-4

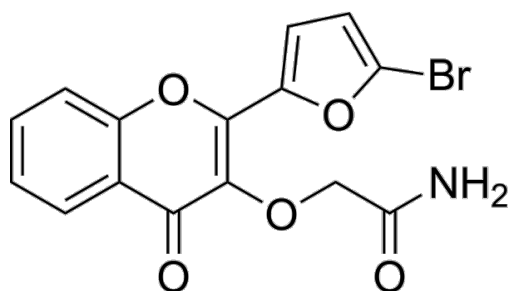
Formula $C_{15}H_{10}BrNO_5$ M.Wt 364.15

Solubility 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

CB7993113 is a potent AHR antagonist, with an IC_{50} of $0.33 \mu M$. CB7993113 directly binds AHR protein and blocks AHR nuclear translocation. CB7993113 inhibits polycyclic aromatic hydrocarbon (PAH)- and TCDD-induced reporter activity by 75% and 90% respectively.

CB7993113 exhibits no toxicity when added at concentrations at least up to $20 \mu M$ to several human cells including HepG2 hepatoma cells, BP1, D3, Hs578T, or MDA-MB-231 breast cancer cells, and primary human-induced pluripotent stem cells[1]. CB7993113 significantly reduces the invasive phenotype of ER-/PR-/HER2- breast cancer cells in vitro[1].

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

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CB7993113 effectively blocks acute, 50 mg/kg DMBA-induced hepatic CYP1A1 induction and bone marrow toxicity in vivo[1].

References:

[1]. Parks AJ, et al. In silico identification of an aryl drocarbon receptor antagonist with biological activity in vitro and in vivo. Mol Pharmacol. 2014 Nov;86(5):593-608.

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