

## Product Data Sheet

Product Name: Ranirestat (AS-3201)

Cat. No.: GC31359

### Chemical Properties

Cas. No. 147254-64-6

SMILES O=C(N1CC2=CC=C(Br)C=C2F)C3=CC=CN3[C@]4(C(NC(C4)=O)=O)C1=O

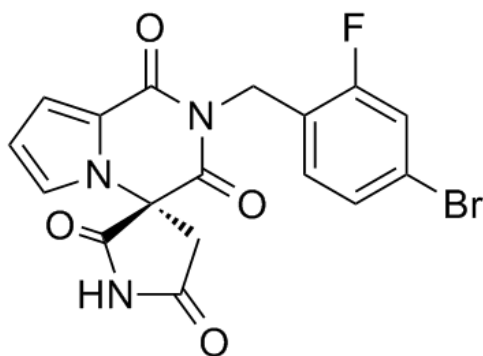
Formula  $C_{17}H_{11}BrFN_3O_4$  M.Wt 420.19

Solubility DMSO :  $\geq 50$  mg/mL (118.99 mM) Storage Store at  $-20^{\circ}\text{C}$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  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

Ranirestat (AS-3201) is an aldose reductase inhibitor being developed for the treatment of diabetic neuropathy.

[1]. Kurono M, et al. Stereospecific recognition of a spirosuccinimide type aldose reductase inhibitor (AS-3201) by plasma proteins: a significant role of specific binding by serum albumin in the improved potency and stability. *Biochem Pharmacol.* 2006 Jan 12;77 [2]. Matsumoto T, et al. Improvement of motor nerve conduction velocity in diabetic rats requires normalization of the polyol pathway

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

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metabolites flux. J Pharmacol Sci. 2009 Feb;109(2):203-10. [3]. Toyoda F, et al. Effect of ranirestat, a new aldose reductase inhibitor, on diabetic retinopathy in SDT rats. J Diabetes Res. 2014;2014:672590.

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