

AS1269574

## Chemical Properties

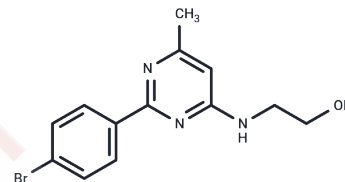
CAS No. : 330981-72-1

Formula: C<sub>13</sub>H<sub>14</sub>BrN<sub>3</sub>O

Molecular Weight: 308.17

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AS1269574 (AS 1269574) is a potent, orally available GPR119 agonist with potential for type 2 diabetes research.
Targets(IC50)	GPCR,TRP/TRPV Channel
In vitro	AS1269574 had an EC(50) value of 2.5µM in HEK293 cells transiently expressing human GPR119 and enhanced insulin secretion in the mouse pancreatic β-cell line MIN-6 only under high-glucose (16.8mM) conditions. This contrasted with the action of the sulfonylurea glibenclamide, which also induced insulin secretion under low-glucose conditions (2.8mM)[1].
In vivo	In in vivo studies, a single administration of AS1269574 to normal mice reduced blood glucose levels after oral glucose loading based on the observed insulin secretion profiles. Significantly, AS1269574 did not affect fed and fasting plasma glucose levels in normal mice. AS1269574 represents a novel structural class of small molecule, orally administrable GPR119 agonists with GSIS and promising potential for the treatment of type 2 diabetes[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (811.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.22 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.245 mL	16.2248 mL	32.4496 mL
5 mM	0.649 mL	3.245 mL	6.4899 mL
10 mM	0.3245 mL	1.6225 mL	3.245 mL
50 mM	0.0649 mL	0.3245 mL	0.649 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Yoshida S, et al. Identification of a novel GPR119 agonist, AS1269574, with in vitro and in vivo glucose-stimulated insulin secretion. *Biochem Biophys Res Commun.* 2010;400(3):437-441.

Chepurny OG, et al. GPR119 Agonist AS1269574 Activates TRPA1 Cation Channels to Stimulate GLP-1 Secretion. *Mol Endocrinol.* 2016;30(6):614-629.

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