

BRD7552

Chemical Properties

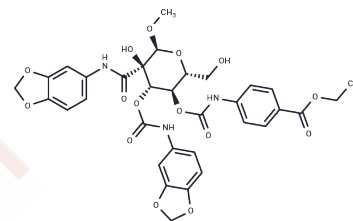
CAS No. : 1137359-47-7

Formula: C33H33N3O15

Molecular Weight: 711.63

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	BRD7552 is an inducer of transcription factor PDX1, which increases insulin expression. BRD7552 increases PDX1 expression in mouse α TC cells but not β TC cells.
Targets(IC50)	Others, IGF-1R
In vitro	BRD7552 upregulates PDX1 expression in both primary human islets and ductal cells, and induces epigenetic changes in the PDX1 promoter consistent with transcriptional activation. BRD7552 increases PDX1 mRNA levels by 2- to 4-fold, with a maximal effect at 5 μ M and the expression of MAFA. BRD7552 increases PDX1 expression in mouse α TC cells but not β TC cells. Treatment of PANC-1 cells with BRD7552 causes a dose-dependent increase in insulin mRNA expression. [1]

Solubility Information

Solubility	DMSO: 93 mg/mL (130.69 mM), Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 93 mg/mL (130.69 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: 3.3 mg/mL (4.64 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

	1mg	5mg	10mg
1 mM	1.4052 mL	7.0261 mL	14.0522 mL
5 mM	0.281 mL	1.4052 mL	2.8104 mL
10 mM	0.1405 mL	0.7026 mL	1.4052 mL
50 mM	0.0281 mL	0.1405 mL	0.281 mL

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

Yuan Y, et al. Chem Biol. 2013, 20(12), 1513-1522.

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