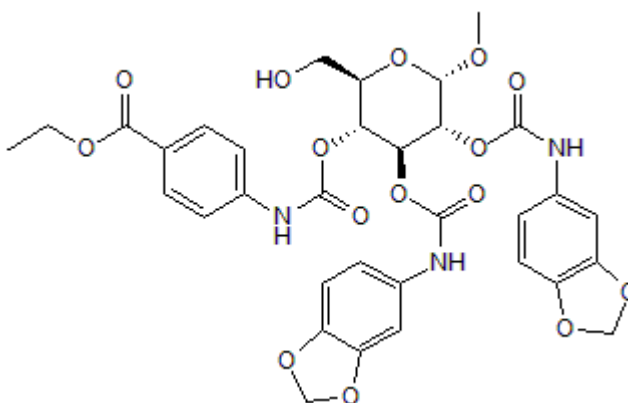


Certificate of Analysis

Product Name: BRD 7552 **Catalog No.:** 5230 **Batch No.:** 1
CAS Number: 1137359-47-7
IUPAC Name: Methyl [2,3-O-bis(Benzo[1,3]dioxol-5-yl-carbamoyl)]-4-O-(4-ethoxycarbonyl-phenylcarbamoyl)- α -D-glucopyranoside

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{33}H_{33}N_3O_{15} \cdot H_2O$
Batch Molecular Weight: 729.65
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.32	4.83	5.76
Found	54.12	4.71	5.61

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Catalog No.: 5230

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IUPAC Name: Methyl [2,3-O-bis(Benzo[1,3]dioxol-5-yl-carbamoyl)]-4-O-(4-ethoxycarbonyl-phenylcarbamoyl)- α -D-glucopyranoside

Description:

PDX1 transcription factor inducer; up regulates PDX1 expression in both primary human islets and ductal cells. Induces epigenetic changes in the PDX1 promoter consistent with transcriptional activation. Increases insulin expression in PANC-1 cells, primary human islets and human duct-derived cells.

Physical and Chemical Properties:

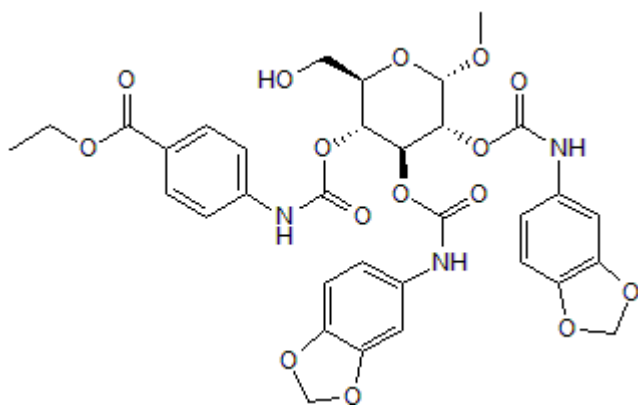
Batch Molecular Formula: C₃₃H₃₃N₃O₁₅.H₂O

Batch Molecular Weight: 729.65

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Yuan *et al* (2013) A small-molecule inducer of PDX1 expression identified by high-throughput screening. *Chem.Biol.* **20** 1513. PMID: 24290880.

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