



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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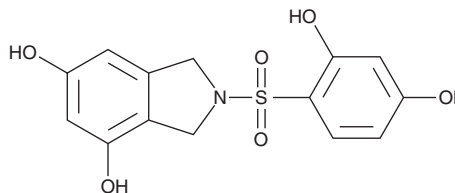
# PRODUCT INFORMATION



## PS-10

Item No. 42068

**CAS Registry No.:** 1564265-82-2  
**Formal Name:** 2-[(2,4-dihydroxyphenyl)sulfonyl]-2,3-dihydro-1H-isoindole-4,6-diol  
**MF:** C<sub>14</sub>H<sub>13</sub>NO<sub>6</sub>S  
**FW:** 323.3  
**Purity:** ≥98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

PS-10 is supplied as a solid. A stock solution may be made by dissolving the PS-10 in the solvent of choice, which should be purged with an inert gas. PS-10 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in acetonitrile.

### Description

PS-10 is an inhibitor of pyruvate dehydrogenase kinase (PDHK; IC<sub>50</sub>s = 2.07, 0.8, 21.3, and 0.77 μM for PDHK1, -2, -3, and -4, respectively).<sup>1</sup> It selectively binds to PDHK2 over heat shock protein 90 (Hsp90; K<sub>d</sub>s = 0.239 and 47 μM, respectively). PS-10 (70 mg/kg) increases heart, liver, and kidney pyruvate dehydrogenase complex activity, decreases blood glucose levels in a glucose tolerance test, and reduces plasma lactate, cholesterol, and triglyceride levels, fat mass, and hepatic lipid accumulation in a mouse model of high-fat diet-induced obesity.

### Reference

1. Tso, S.-C., Qi, X., Gui, W.-J., *et al.* Structure-guided development of specific pyruvate dehydrogenase kinase inhibitors targeting the ATP-binding pocket. *J. Biol. Chem.* **289**(7), 4432-4443 (2014).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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