

PRODUCT INFORMATION



PTERi

Item No. 45644

CAS Registry No.: 3114432-21-9

Formal Name: 3-[2-[2-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)ethoxy]ethoxy]-N-hydroxy-propanamide

Synonym: Phosphotriesterase-related Protein Inhibitor

MF: $C_{19}H_{20}N_2O_6$

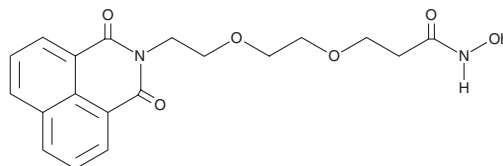
FW: 372.4

Purity: $\geq 98\%$

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

PTERi is supplied as a solid. A stock solution may be made by dissolving the PTERi in the solvent of choice, which should be purged with an inert gas. PTERi is soluble (≥ 10 mg/ml) in DMSO.

Description

PTERi is an inhibitor of phosphotriesterase-related protein (PTER; $IC_{50} = 830$ nM for the human enzyme), an aminohydrolase involved in the metabolism of the anorexigenic metabolite N-acetyl taurine (Item No. 35169).¹ It is selective for PTER over a panel of 13 histone deacetylases (HDACs) and sirtuins (SIRTs) at 100 μM but does inhibit HDAC8 and HDAC10 by $>80\%$ at 100 μM . Acute administration of PTERi (100 mg/kg) increases plasma N-acetyl taurine levels in lean and diet-induced obese (DIO) mice and chronic administration over four weeks decreases food intake and body weight in DIO mice. It also enhances loss of body weight and reductions in food intake induced by semaglutide (Item Nos. 40231 | 29969 | 40170) in DIO mice.

Reference

1. Fu, S., Wang, L., Li, V.L., *et al.* A small molecule PTER-selective inhibitor reduces food intake and body weight. *Cell Chem. Biol.* **33**(3), 353-363 (2026).

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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