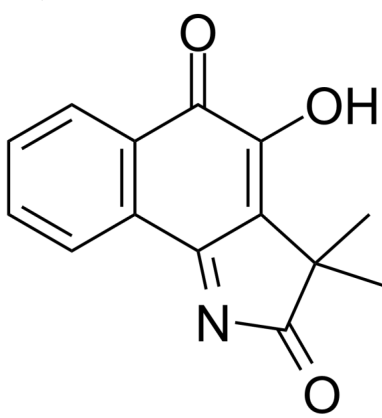


Certificate of Analysis

Catalog Number	BP13744
Product Name	BVT948

Physical and Chemical Properties

CAS No.	39674-97-0
Chemical Formula	C ₁₄ H ₁₁ NO ₃
Molecular Weight	241.246
Solubility	DMSO: 100 mg/mL (414.52 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	BVT948 is a protein tyrosine phosphatase (PTP) inhibitor. It can also inhibit lysine methyltransferase SETD8 (KMT5A) and several cytochrome P450 (P450) isoforms.
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In vitro	BVT948 inhibits TPA-induced MMP-9 up-regulation in a dose-dependent manner. BVT948 does not affect the MAPK phosphorylation by TPA. Treatment with BVT948 diminishes the TPA-induced cell invasion by 50%. BVT948 appears to be an effective inhibitor of both protein tyrosine phosphatases (PTP activity and P450 activity). BVT948 efficiently and selectively suppresses cellular H4 lysine 20 (H4K20me1) at doses lower than 5 μ M within 24 h. Results show that the effect of BVT948 (BVT.948) is to strengthen the insulin signal and has no effects on the duration of the signal. The cells treated with BVT948 recapitulate cell-cycle-arrest phenotypes similar to what are reported for knocking down SETD8 by RNAi. Treatment of MCF-7 cells with 0.5, 1 or 5 μ M of BVT948 for 24 h does not cause any significant changes in cell viability. Treatment with BVT948 inhibits TPA-stimulated NF- κ B binding activity, but not AP-1 binding activity.
In vivo	Compare with vehicle-treated controls, BVT948 (BVT.948, 3 μ mol/kg) significantly enhances glucose clearance from the blood stream in response to insulin.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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