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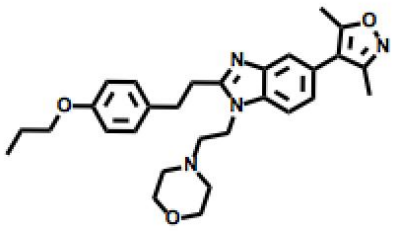
CBP/p300 Bromodomain Inhibitor - PF-CBP1

Chemical Name: 4-(2-(5-(3,5-dimethylisoxazol-4-yl)-2-(4-propoxyphenethyl)-1H-benzo[d]imidazol-1-yl)ethyl)morpholine



Molecular Weight:	488.62
Formula:	$C_{29}H_{36}N_4O_3$
Purity:	≥98%
CAS#:	n/a
Solubility:	DMSO up to 100 mM EtOH up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

PF-CBP1 is a potent and selective CBP/p300 bromodomain inhibitor (IC_{50} ~125 nM for CBP and 363 nM for p300). It has >100-fold selectivity for CBP over BRD4, and shows selectivity over a panel of other bromodomains. PF-CBP1 reduces LPS-induced IL-1β, IL-6 and IFN-β expression in macrophages in vitro. It can also downregulate RGS4 expression in primary cortical neurons in vitro.

How to Use:

In vitro: PF-CBP1 was used at 10 μM final concentration in various assays.

In vivo: n/a

Reference:

1. Chekler EL, et al. Transcriptional Profiling of a Selective CREB Binding Protein Bromodomain Inhibitor Highlights Therapeutic Opportunities. (2015) Chem Biol. 22(12):1588-96.