SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalog #	Aliquot Size
H83-904E-5	5 mg
H83-904E-25	25 mg

MS-275 (Entinostat)

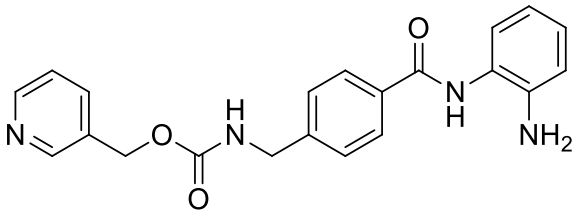
Epigenetic Enzyme Inhibitor

Catalog # H83-904E
Lot # P3320-24
CAS # 209783-80-2

Product Description

Molecular Formula: $C_{21}H_{20}N_4O_3$
Appearance: Pale yellow powder
Melting Point: 159-160℃
Molecular Weight: 376.41
Purity: >98% (TLC); NMR (Conforms)
Solubilization: May be dissolved in DMSO (25 mg/ml, warm)

Molecular Structure



Alias

Pyridin-3-ylmethyl 4-((2-aminophenyl)carbamoyl)benzylcarbamate; Entinostat

Specific Activity

HDAC Inhibitor

Storage and Stability

Store desiccated as supplied at -20°C for up to 1 year.
Store solutions at -20°C for up to 1 week.

Scientific Background

A potent and selective non-hydroxamate HDAC inhibitor. Considered to be a class I selective inhibitor but displays some selectivity amongst class I members: HDAC1 (IC_{50} = 0.3 μM); HDAC3 (IC_{50} = 8 μM) with no inhibition of HDAC8 (at >100 μM)[1]. Induces hyperacetylation of nuclear histones in tumor cells resulting in inhibition of proliferation of a variety of human tumor cell lines[2]. Protects p53-deficient mice against ischemic injury[3]. Supresses the p38 MAP kinase pathway in rheumatoid arthritic synovial fibroblasts4. Active in vivo.

References

1. E Hu et al. J. Pharmacol. Exp. Ther. 2003 307:720
2. A Saito et al. Proc. Natl. Acad. Sci. USA 1999 96:4592
3. SP Murphy et al. J. Neurochem. 2013 Oct 21 epub
4. QY Choo et al. Molecules 2013 18:14085

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To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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