Creative Enzymes®

Panobinostat

Cat. No. CEI-0980

Lot. No. (See product label)

Introduction

Description	Panobinostat, also known as LBH-589, is a highly active, non-selective HDAC inhibitor. IC50's against HDAC s 1-9 range between 3 – 61 nM except for a slightly higher IC50 value of 248 nM for HDAC 8. Panobinostat inhibits tumor cell proliferation and induces apoptosis in breast cancer and T cell lymphoma cells. In addition to its tumor-suppressive activities, panobinostat induces histone H3K9 and histone H4K8 acetylation and decreases the level of c-Myc expression.
Synonyms	Faridak, LBH-589

Product Information

Appearance	Yellow solid
CAS No.	404950-80-7
Molecular Formula	C21H23N3O2
Molecular Weight	349.4 Da
Purity	>99%
Targets	HDAC
IC50	IC50's against HDAC s 1-9 range between 3 – 61 nM except for a slightly higher IC50 value of 248 nM for HDAC 8.
Solubility	Soluble in DMSO at 200 mg/ml; soluble in ethanol at 5 mg/ml with warming; very poorly soluble in water; maximum solubility in plain water is estimated to be about 20-50 µM buffers, serum, or other additives may increase or decrease the aqueous solubility.

Storage and Shipping Information

Stability	Store at or below –20°C. Solid form is stable at least 12 months from date of receipt, when stored as directed. Do not store aqueous solutions for more than one day.