

**Product Name** : Belinostat

**Synonyms** : PXD101

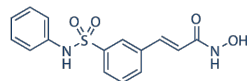
**Cat No.** : M14420

**CAS Number** : 414864-00-9

**Molecular Formula** : C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>S

**Formula Weight** : 318.35

**Chemical Name** : 2-Propenamide, N-hydroxy-3-((phenylamino)sulfonyl)phenyl)-



**Description** : Belinostat is a novel hydroxamic acid-type histone deacetylase (HDAC) inhibitor with antineoplastic activity. Belinostat targets HDAC enzymes, thereby inhibiting tumor cell proliferation, inducing apoptosis, promoting cellular differentiation, and inhibiting angiogenesis. This agent may sensitize drug-resistant tumor cells to other antineoplastic agents, possibly through a mechanism involving the down-regulation of thymidylate synthase.

**Pathway** : Cell Cycle/DNA Damage

**Target** : HDAC

**Receptor** : HDAC

**Solubility** : DMSO: 64 mg/mL (201.03 mM)

**SMILES** : C1=CC=C(C=C1)NS(=O)(=O)C2=CC=CC(=C2)/C=C/C(=O)NO

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1.Savickiene J, et al. anticancer Drugs. 2014 Sep;25(8):938-49.