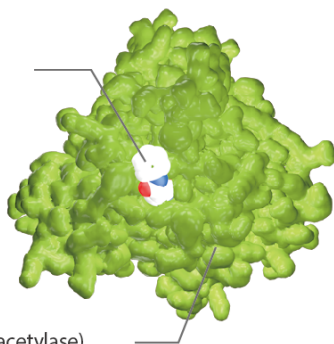


# Dynamin

HDAC Inhibitor:  
Vorinostat (SAHA)



HDAC (Histone deacetylase)

Dynamins are large superfamily GTPase proteins that are involved in various cellular processes including budding of transport vesicles, division of organelles, cytokinesis, and pathogen resistance. Dynamins are involved in scission (cleavage of the vesicle from the parent membrane) of nascent vesicles from parent membranes in eukaryotic cells. Dynamins interact directly with the lipid bilayer at the necks of clathrin-coated pits to sever and release coated vesicles. Dynamins contain five domains, including GTPase domain, middle domain, PH domain, GTPase effector domain (GED), and proline rich domain (PRD), while the dynamin-related proteins (DRPs) lack one or more of these domains or have additional domains. Dynamins and DRPs

participate in a wide variety of cellular processes, including budding mitochondrial fission (mammalian Dlp1 and *Saccharomyces cerevisiae* Dnm1) and fusion (mammalian OPA1, *S.cerevisiae* Mgm1 and *Schizosaccharomyces pombe* Msp1), vacuolar fission (*S. cerevisiae* Vps1), interferon-induced anti-viral protection (fish Mx proteins), plant cell cytokinesis and membrane fission (*Arabidopsis thaliana* DRP proteins), as well as pathogen resistance.

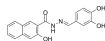
## Dynamins Inhibitors & Modulators

### Dynasore

Cat. No.: HY-15304

**Bioactivity:** Dynasore is a cell-permeable **dynamins** inhibitor with an **IC<sub>50</sub>** of 15  $\mu$ M.

**Purity:** 99.61%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO,  
10 mg, 50 mg



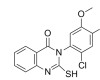
### Mdivi-1

(Mitochondrial division inhibitor 1)

Cat. No.: HY-15886

**Bioactivity:** Mdivi-1 is a selective dynamins-related protein 1 (**Drp1**) inhibitor.

**Purity:** 98.75%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO,  
5 mg, 10 mg, 50 mg, 100 mg



### Schaftoside

Cat. No.: HY-N0703

**Bioactivity:** Schaftoside is a flavonoid found in a variety of Chinese herbal medicines, such as Eleusine indica. Schaftoside inhibits the expression of TLR4 and Myd88. Schaftoside also decreases Drp1 expression and phosphorylation, and reduces mitochondrial fission [1].

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:**

