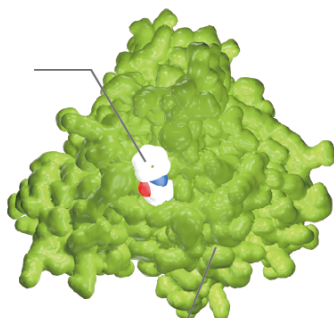


# ROS

## Reactive oxygen species

HDAC Inhibitor:  
Vorinostat (SAHA)



HDAC (Histone deacetylase)

of cancers harboring such genes.

ROS is a proto-oncogenic receptor tyrosine kinase whose expression is tightly restricted during development. ROS kinase is one of the last two remaining orphan receptor tyrosine kinases. It is thought also that c-ROS gene may have a role in some cardiovascular diseases, and the fact that homozygous male mice targeted against c-ROS gene are healthy but infertile, has inspired researchers to think about ROS inhibition as a method for development of new male contraceptives. The new selective and potent inhibitors for ROS kinase, along with the development of new specific diagnostic methods for the detection of ROS fusion proteins, raises the importance of using these selective inhibitors for targeting ROS mutations as a new method for treatment

## ROS Inhibitors & Modulators

### 3,4-Dimethoxycinnamic acid

(O-Methylferulic acid)

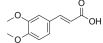
Cat. No.: HY-N1778

**Bioactivity:** 3,4-Dimethoxycinnamic acid (O-Methylferulic acid) is a monomer extracted and purified from *Securidaca inappendiculata* Hassk. 3,4-Dimethoxycinnamic acid exerts anti-apoptotic effects on L-02 cells via the ROS-mediated signaling pathway <sup>[1]</sup>

**Purity:** 99.54%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO,  
100 mg



### Entrectinib

(NMS-E628; RXDX-101)

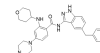
Cat. No.: HY-12678

**Bioactivity:** Entrectinib is a potent and orally available **Trk**, **ROS1**, and **ALK** inhibitor; inhibits TrkA, TrkB, TrkC, ROS1 and ALK with **IC<sub>50</sub>** values of 1, 3, 5, 12 and 7 nM, respectively.

**Purity:** 99.61%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in DMSO,  
5 mg, 10 mg, 50 mg, 100 mg



### Neohesperidin dihydrochalcone

(Neohesperidin DC; NHDC)

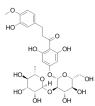
Cat. No.: HY-N0154

**Bioactivity:** Neohesperidin dihydrochalcone is a synthetic glycoside chalcone, is added to various foods and beverages as a low caloric artificial sweetener.

**Purity:** 98.04%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO,  
100 mg, 500 mg, 1 g, 5 g



### Repotrectinib

(TPX-0005)

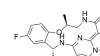
Cat. No.: HY-103022

**Bioactivity:** Repotrectinib (TPX-0005) is a potent **ALK/ROS1/TRK** inhibitor, with **IC<sub>50</sub>** of 5.3 nM, 1.01 nM, 1.26 nM and 1.08 nM for SRC, WT ALK, ALK G1202R and ALK L1196M, respectively.

**Purity:** 99.91%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO,  
5 mg, 10 mg, 25 mg, 50 mg



### WY-135

Cat. No.: HY-111416

**Bioactivity:** WY-135 is a **ALK** (**IC<sub>50</sub>**=1.4 nM) and **ROS1** (**IC<sub>50</sub>**=1.1 nM) dual inhibitor.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:**

