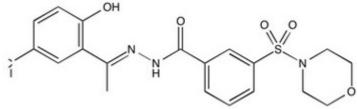
# Tribioscience

## SP2509, LSD1 Inhibitor

Catalog	Unit
TBI4019-5MG	5 mg
TBI4019-25MG	25 mg

### **Product Details**

Formal Name: (E)-N'-(1-(5-Chloro-2-hydroxyphenyl)ethylidene)-3-(morpholinosulfonyl)benzohydrazide Molecular Formula: C19H20ClN3O5S Formula Weight: 437.90 OH CAS Number: 1423715-09-6 **Purity:** >98% Formulation: powder Solubility: Soluble in DMSO (up to at least 25 mg/ml) Storage: -20°C **Stability:**  $\geq 1$  year.



#### **Applications**

LSD1 Inhibitor

#### **Functions**

SP2509 is a potent (IC50 = 13 nM), reversible, non-competitive inhibitor of histone demethylase LSD1 (KDM1A), selective over the closely related flavin enzymes MAO A & B, lactate dehydrogenase, several CYPs, or hERG1. It inhibits growth and induces differentiation of cancer stem cells, e.g. AML progenitor cells, and promotes autophagy in neuroblastoma cells. It also causes cancer cell death independent if LSD1, possibly through downregulation of Bcl-2 and Mcl-1. Also inhibits HSV-1 infection by blocking viral DNA replication and gene expression.

#### **Application Procedures**

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.