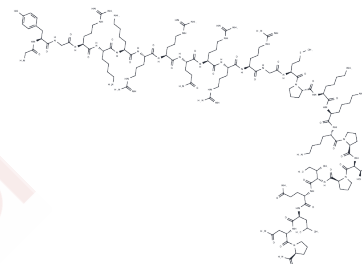


## TAT-MEK1

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 566872-16-0   |
| Formula:          | C136H241N53O31S   |
| Molecular Weight: | 3146.77   |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |   |
|---------------|---|
| Description   | TAT-MEK1, an inhibitor of ERK2, comprises TAT and MEK1 (N-terminal). The TAT component (YGRKKRRQRRR) is a cell-penetrating peptide derived from the human immunodeficiency (HIV-1) transcriptional trans activator (TAT). TAT-MEK1 has an IC50 of 29 $\mu$ M for ERK2 in vitro [1] [2].   |
| Targets(IC50) | ERK   |
| In vitro      | TAT-MEK1 (100 $\mu$ M, 30 min) effectively inhibits luciferase activity in NIH 3T3 and PC12 cells and suppresses ERK2 activation [2]. Western Blot Analysis [2] was conducted on cell lines NIH 3T3 and PC12 with a concentration of 100 $\mu$ M and an incubation time of 30 minutes, resulting in decreased luciferase and ERK2 activities. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.3178 mL | 1.5889 mL | 3.1779 mL |
| 5 mM  | 0.0636 mL | 0.3178 mL | 0.6356 mL |
| 10 mM | 0.0318 mL | 0.1589 mL | 0.3178 mL |
| 50 mM | 0.0064 mL | 0.0318 mL | 0.0636 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481