

# Epigenetics

**TOCRIS**  
a biotechne brand

## Introduction

Epigenetics is a relatively new research area that has rapidly become a topic of intense research focus and funding. Many pharmaceutical companies are investing in epigenetic research programs, and it remains an area of great interest to academic institutes. Epigenetics is popular within the cancer research community.

Tocris offers a wide selection of high quality chemical tools for novel and established epigenetic targets, ideal for validating new therapeutic targets and further probing the biology of epigenetic proteins.

Targets we cover include:

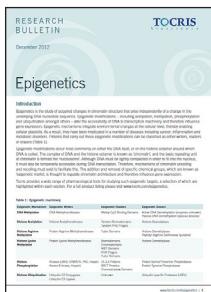
- Arginine Methyltransferases
- Bromodomains
- Histone Acetyltransferases
- Histone Deacetylases
- Lysine Demethylases
- Lysine Methyltransferases

## Epigenetics Literature from Tocris



### Epigenetics Review

Written by Susanne Müller-Knapp and Peter J. Brown, this review gives an overview of the development of chemical probes for epigenetic targets. Their biological effects are also discussed. Compounds available from Tocris are listed.



### Epigenetics Bulletin

Produced by Tocris and updated in 2014, the epigenetics research bulletin gives an introduction into mechanisms of epigenetic regulation, and highlights key Tocris products for epigenetic targets.

## Some Key Products for Epigenetics

### EPZ 004777 (#5567)

#### Methyltransferase Inhibitor

- › Highly potent and selective DOT1L inhibitor
- › Used to show involvement of DOT1L methyltransferase in mixed lineage leukemia
- › Licensed to Tocris from Epizyme

### GSK J4 (#4594)

#### Lysine Demethylase Inhibitor

- › Highly cited JMJD lysine demethylase inhibitor
- › Cell permeable
- › Alters cytokine release from macrophages
- › Negative control GSK J5 (#4689) also available

### (+)-JQ1 (#4499)

#### Bromodomain Inhibitor

- › Widely used BET bromodomain inhibitor - the first to be reported
- › Used to investigate involvement of bromodomains in cancer
- › Negative control (-)-JQ1 (#5603) also available

### SAHA (#4652)

#### Histone Deacetylase (HDAC) Inhibitor

- › Clinically used HDAC inhibitor - approved for use in cutaneous T cell lymphoma
- › Suitable for *in vivo* experiments

### UNC 0642 (#5132)

#### Methyltransferase Inhibitor

- › Potent and selective inhibitor of G9a/GLP histone methyltransferases
- › Suitable for *in vivo* experiments

For a complete overview, please visit [www.tocris.com/epigenetics](http://www.tocris.com/epigenetics)

## An Intuitive Website

We add hundreds of new products to our range each year, and our website is the most up-to-date resource available. Updated weekly, our new products can be easily identified by the **New** symbol.

Products are organized by target, and each target comes with a wealth of relevant biological information. All product pages display information about the published biological activity of each product, along with technical data including solubility, storage conditions, and purity.

Our website also features handy online tools to help researchers easily calculate molarity and stock dilutions for each product. Frequently asked questions and a glossary of common scientific terms can also be found on our website, providing instant solutions for researchers' queries.

## Why Buy From Tocris?

### Fair Pricing

We believe that our pricing is the fairest on the market. When you buy products from Tocris you receive exceptional quality material, together with value for money; our products are typically sold in research quantities (10 mg and 50 mg).

### Innovative Products

Our product range is continuously growing. We have a dedicated team of scientists working to quickly find the best, newest and most relevant chemical tools available, so we can be first to market with the latest research tools.

### Ethical Approach

It is Tocris policy to never knowingly infringe patents. Instead, we work together with academic institutes and pharmaceutical companies to provide rewards to inventors. We also support open access drug discovery programs across the world.

## Life Science Literature from Tocris

Tocris provides a wide range of scientific literature, including the following titles:

### Product Guides & Listings



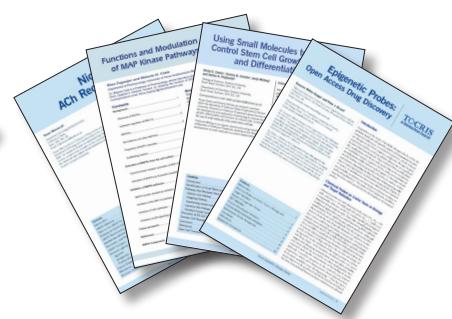
- Cancer Research
- Neurodegeneration
- Cardiovascular Research
- Pain Research

### Life Science Posters



- Learning and Memory
- Programmed Cell Death
- Autophagy
- Peripheral Sensitization

### Scientific Reviews



- Epigenetics
- Stem Cells
- MAPK Signaling
- Nicotinic ACh Receptors

For a complete selection of Tocris literature please visit [www.tocris.com/literature.php](http://www.tocris.com/literature.php)

## Stay Up To Date With Tocris



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