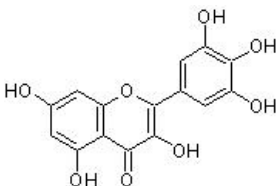


Product datasheet

Myricetin, irreversible TrxR inhibitor ab120721

2 Images

Overview

Product name	Myricetin, irreversible TrxR inhibitor
Description	Potent antineoplastic, antioxidant and anti-inflammatory agent
Biological description	Directly inhibits MEK, JAK1, Akt and MKK4 kinase activity. Able to inhibit cytochrome P450 3A4 and 2C9 (IC ₅₀ = 7.81 and 13.5 µM, respectively).
Purity	> 97%
CAS Number	529-44-2
Chemical structure	

Properties

Chemical name	3,5,7-Trihydroxy-2-(3,4,5-trihydroxyphenyl)-4 <i>H</i> -1-benzopyran-4-one
Molecular weight	318.24
Molecular formula	C ₁₅ H ₁₀ O ₈
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 50 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
Source	Synthetic

Applications

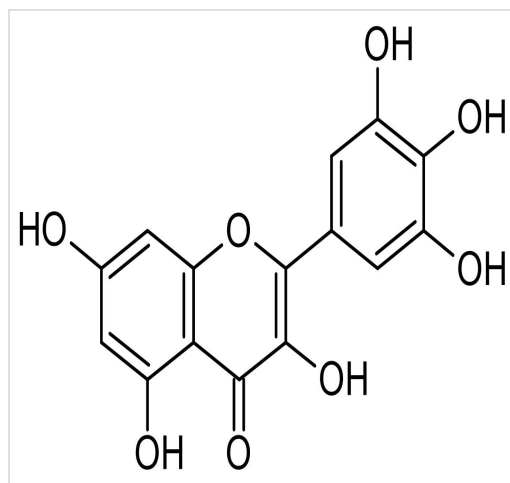
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120721 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

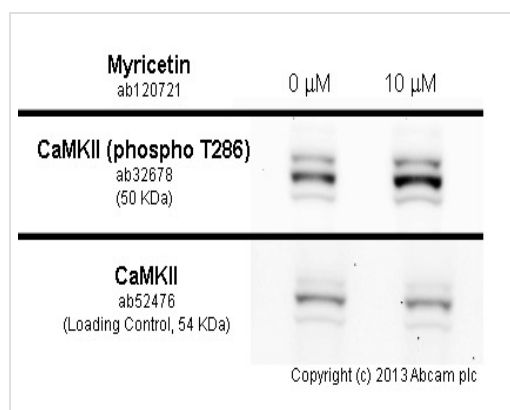
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Myricetin, irreversible TrxR inhibitor (ab120721)

2D chemical structure image of ab120721, Myricetin, irreversible TrxR inhibitor



Functional Studies - Myricetin, irreversible TrxR inhibitor (ab120721)

PC 12 cells were incubated at 37°C for 30 minutes with vehicle control (0 μM) and different concentrations of myricetin (ab120721). Increased expression of CaMKII (phospho T286) (**ab32678**) in PC 12 cells correlates with an increase in myricetin concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 20 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 3% milk before being incubated with **ab32678** at 1/500 dilution and **ab52476** at 1/500 dilution overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

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