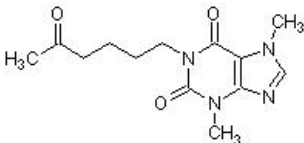


Product datasheet

Pentoxifylline, Phosphodiesterase and cytokine inhibitor ab120725

[2 References](#) [2 Images](#)

Overview

Product name	Pentoxifylline, Phosphodiesterase and cytokine inhibitor
Description	Phosphodiesterase inhibitor. Cytokine inhibitor.
Biological description	Phosphodiesterase inhibitor. Inhibits synthesis of TNF- α . Broad-spectrum inhibitor of cytokines. Displays anti-inflammatory and antinociceptive properties.
Purity	> 99%
CAS Number	6493-05-6
Chemical structure	

Properties

Chemical name	3,7-Dimethyl-1-(5-oxohexyl)xanthine
Molecular weight	278.31
Molecular formula	C ₁₃ H ₁₈ N ₄ O ₃
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 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

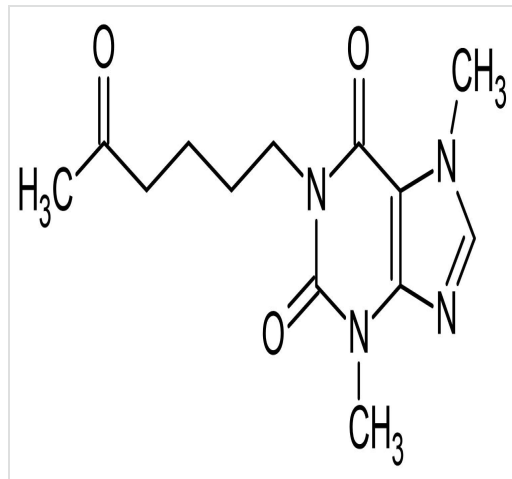
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120725 in the following tested applications.

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

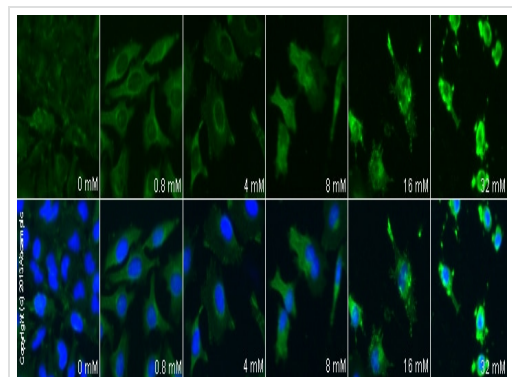
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Pentoxifylline,
Phosphodiesterase and cytokine inhibitor
(ab120725)

2D chemical structure image of ab120725, Pentoxifylline,
Phosphodiesterase and cytokine inhibitor



Immunocytochemistry/ Immunofluorescence -
Pentoxifylline, Phosphodiesterase and cytokine
inhibitor (ab120725)

ab54775 staining annexin V in HeLa cells treated with pentoxifylline (ab120725), by ICC/IF. Increase of annexin V correlates with increased concentration of pentoxifylline, as described in literature. The cells were incubated at 37°C for 24h in media containing different concentrations of ab120725 (pentoxifylline) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab54775** (10 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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