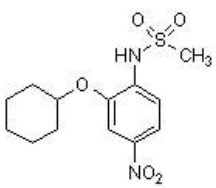


Product datasheet

NS 398, COX-2 inhibitor ab120295

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

Overview

Product name	NS 398, COX-2 inhibitor
Description	COX-2 inhibitor
Biological description	Selective cyclooxygenase-2 inhibitor (IC ₅₀ values are 3.8 and >100 µM for COX-2 and COX-1, respectively). Orally active. Anti-inflammatory, antipyretic, analgesic and non-ulcerogenic <i>in vivo</i> . Induces apoptosis and cell cycle arrest.
CAS Number	123653-11-2
Chemical structure	

Properties

Chemical name	N-[2-(Cyclohexyloxy)-4-nitrophenyl]methanesulfonamide
Molecular weight	314.36
Molecular formula	C ₁₃ H ₁₈ N ₂ O ₅ S
PubChem identifier	4553
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO 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>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>[O-][N+](=O)c2cc(OC1CCCCC1)c(NS(C)(=O)=O)cc2</chem>
Source	Synthetic

Applications

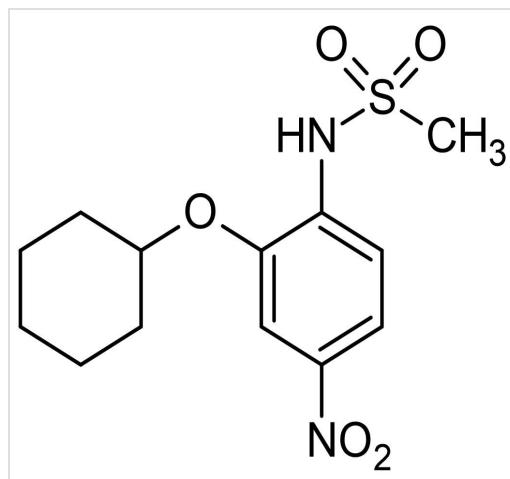
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120295 in the following tested applications.

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

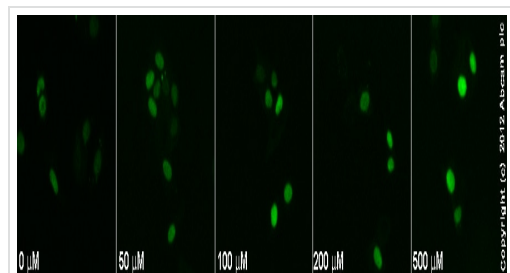
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - NS 398, COX-2 inhibitor
(ab120295)

2D chemical structure image of ab120295, NS 398, COX-2 inhibitor



Immunocytochemistry/ Immunofluorescence - NS
398, COX-2 inhibitor (ab120295)

ab32034 staining p27 KIP1 in MCF7 cells treated with NS 398 (ab120295), by ICC/IF. Increase in p27 KIP1 expression correlates with increased concentration of NS 398, as described in literature. The cells were incubated at 37°C for 6h in media containing different concentrations of ab120295 (NS 398) 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 **ab32034** (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody.

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

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