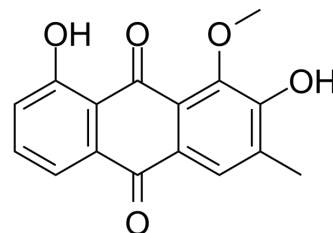


## Obtusifolin

<b>Cat. No.:</b>	HY-N2098		
<b>CAS No.:</b>	477-85-0		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	284.26		
<b>Target:</b>	NF-κB		
<b>Pathway:</b>	NF-κB		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (35.18 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.7590 mL	3.5179 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Obtusifolin, isolated from the seeds of *Cassia obtusifolia*, regulates the gene expression and production of MUC5AC mucin in airway epithelial cells via inhibiting NF-κB pathway<sup>[1]</sup>. Obtusifolin suppresses phthalate esters-induced breast cancer bone metastasis by targeting parathyroid hormone-related protein<sup>[2]</sup>.

#### IC<sub>50</sub> & Target

NF-κB

#### In Vitro

Obtusifolin (1, 10, 100 μM) inhibits MUC5AC gene expression induced by EGF, PMA, or TNF-α in NCI-H292 cells<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Choi BS, et al. Obtusifolin isolated from the seeds of *Cassia obtusifolia* regulates the gene expression and production of MUC5AC mucin in airway epithelial cells via affecting NF-κB pathway. *Phytother Res.* 2019 Apr;33(4):919-928.

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[2]. Hsu YL, et al. Obtusifolin suppresses phthalate esters-induced breast cancer bone metastasis by targeting parathyroid hormone-related protein. J Agric Food Chem. 2014 Dec 10;62(49):11933-40.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA