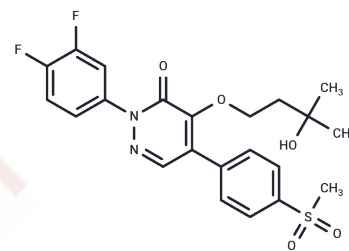


## ABT-963

## Chemical Properties

CAS No. :	266320-83-6
Formula:	C <sub>22</sub> H <sub>22</sub> F <sub>2</sub> N <sub>2</sub> O <sub>5</sub> S
Molecular Weight:	464.48
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ABT-963 is a potent and selective inhibitor of disubstituted pyridazinone cyclooxygenase-2 (LOX2) that dose-dependently reduces injury perception in a carrageenan model of nociceptive sensitization. ABT-963 is used in the study of arthritis.
Targets(IC50)	COX, Lipoxygenase
In vivo	Following oral administration, ABT-963 decreased prostaglandin E <sub>2</sub> production in a rat carrageenan airbag model (ED <sub>50</sub> of 0.4 mg/kg) and reduced edema in a carrageenan-induced paw edema model with an ED <sub>30</sub> of 1.9 mg/kg. ABT-963 dose-dependently decreased injury perception in a carrageenan nociceptive hypersensitivity model (ED <sub>50</sub> of 3.1 mg/kg). After 14 days of administration in an adjuvant arthritis model, ABT-963 had an ED(50) of 1.0 mg/kg in reducing hind paw swelling.[1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1529 mL	10.7647 mL	21.5295 mL
5 mM	0.4306 mL	2.1529 mL	4.3059 mL
10 mM	0.2153 mL	1.0765 mL	2.1529 mL
50 mM	0.0431 mL	0.2153 mL	0.4306 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Harris RR, et al. ABT-963 [2-(3,4-difluoro-phenyl)-4-(3-hydroxy-3-methyl-butoxy)-5-(4-methanesulfonyl-phenyl)-2H-pyridazin-3-one], a highly potent and selective disubstituted pyridazinone cyclooxygenase-2 inhibitor. J Pharmacol Exp Ther. 2004 Dec;311(3):904-12.

Chen Y, et al. Enhancing the bioavailability of ABT-963 using solid dispersion containing Pluronic F-68. Int J Pharm. 2004 Nov 22;286(1-2):69-80.

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