

Efflux Pump Research Reagents

Efflux pumps are transport proteins involved in the extrusion of toxic substrates from bacterial cellular interior to the external environment. Efflux pumps have an enormous impact on medicine owing to their increased resistance to antimicrobial agents. TCI offers products relating to efflux pump research.

Products		References
Acriflavine	[A0134]	<i>J. Bacteriol.</i> 2002 , 184, 572.
Acriflavine Hydrochloride	[A0677]	<i>Biol. Pharm. Bull.</i> 2003 , 26, 266.
Artesunate	[A2191]	<i>J. Antimicrob. Chemother.</i> 2011 , 66, 769.
Berberine Chloride Hydrate	[B0450]	<i>Indian J. Exp. Biol.</i> 2013 , 51, 764.
Berberine Sulfate	[B0451]	<i>Antibiotics</i> 2019 , 8, 229.
Capsaicin (Natural)	[M1149]	<i>J. Antimicrob. Chemother.</i> 2012 , 67, 2401.
CCCP	[C2876]	<i>J. Microbiol.</i> 2014 , 7, e8691. <i>PLoS ONE</i> 2021 , 16, e0259915. <i>Infect. Drug Resist.</i> 2021 , 14, 1199. <i>J. Microbiol.</i> 2013 , 6, e6792. <i>Lett. Appl. Microbiol.</i> 2008 , 47, 298.
Celecoxib	[C2816]	<i>Front. Microbiol.</i> 2015 , 6, 750.
Cholecalciferol	[C0314]	<i>EXCLI J.</i> 2016 , 15, 315.
Cuminaldehyde	[I0168]	<i>Arch. Microbiol.</i> 2017 , 199, 465.
Curcumin (Natural)	[C0434]	<i>Med. Chem. Commun.</i> 2014 , 5, 1540.
Curcumin (Synthetic)	[C2302]	
Ethidium Bromide	[E0370]	<i>J. Infect. Chemother.</i> 2016 , 22, 780. <i>Biol. Pharm. Bull.</i> 2003 , 26, 266.
Farnesol (mixture of isomers)	[T0608]	<i>Molecules</i> 2010 , 15, 7750.
Geraniol	[G0027]	<i>Antimicrob. Agents Chemother.</i> 2009 , 53, 2209.
Haloperidol	[H0912]	<i>Mycopathologia</i> 2020 , 185, 279. <i>Saudi Pharm. J.</i> 2022 , 30, 245.
Kaempferol	[K0018]	<i>PLoS ONE</i> 2015 , 10, e0124814. <i>Biologia</i> 2016 , 71, 484.
Methylene Blue Hydrate	[M0501]	<i>Microbiology</i> 1997 , 143, 1901.
Nerol	[N0077]	<i>Microb. Pathog.</i> 2016 , 99, 173.
Nordihydroguaiaretic Acid	[D0800]	<i>MicrobiologyOpen</i> 2014 , 3, 885.
Osthole	[O0426]	<i>Med. Chem. Commun.</i> 2014 , 5, 1540.

Efflux Pump Research Reagents

Products		References
Pantoprazole	[P2262]	<i>Saudi Pharm. J.</i> 2022 , 30, 245.
Plumbagin	[P1139]	<i>MicrobiologyOpen</i> 2014 , 3, 885.
Promethazine Hydrochloride	[P2029]	<i>Med. Mycol.</i> 2020 , 58, 906. <i>In vivo</i> 2020 , 34, 65. <i>Mycopathologia</i> 2020 , 185, 279. <i>Med. Mycol.</i> 2018 , 56, 1012.
Reserpine	[R0007]	<i>Indian J. Exp. Biol.</i> 2013 , 51, 764. <i>Antibiotics</i> 2019 , 8, 229.
Rhodamine 6G	[R0039]	<i>Bio Protoc.</i> 2017 , 7, e2428.

References with hyperlinks are available in application section on the product detail pages of our website.

Ordering and Customer Service

TCI AMERICA

Tel : 800-423-8616 / 503-283-1681
Fax : 888-520-1075 / 503-283-1987
E-mail : Sales-US@TCIchemicals.com

TCI EUROPE N.V.

Tel : +32 (0)3 735 07 00
Fax : +32 (0)3 735 07 01
E-mail : Sales-EU@TCIchemicals.com

TCI Deutschland GmbH

Tel : +49 (0)6196 64053-00
Fax : +49 (0)6196 64053-01
E-mail : Sales-DE@TCIchemicals.com

Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 78 45 60
E-mail : Sales-UK@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司

Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
E-mail : Sales-CN@TCIchemicals.com

Tokyo Chemical Industry (India) Pvt. Ltd.

Tel : 1800 425 7889 / 044-2262 0909
E-mail : Sales-IN@TCIchemicals.com

TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878
E-mail : globalbusiness@TCIchemicals.com

• Chemicals itemized in this brochure are for research and testing use only. Please avoid use other than by chemically knowledgeable professionals. • Information such as listed products and its specifications and so on are subject to change without prior notice. • The contents may not be reproduced or duplicated in whole or in part without permission of Tokyo Chemical Industry Co., Ltd.