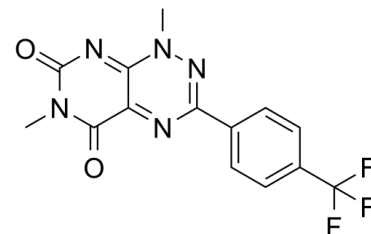


Data Sheet

Product Name:	Walrycin B
Cat. No.:	CS-2414
CAS No.:	878419-78-4
Molecular Formula:	C ₁₄ H ₁₀ F ₃ N ₅ O ₂
Molecular Weight:	337.26
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : 11.5 mg/mL (34.10 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Walrycin B is a novel antibacterial compound specifically targeting the essential WalR response regulator. IC₅₀ value: 0.39 ug/ml (MIC for *B. subtilis* 168); 3.13 ug/ml (MIC for *S. aureus* N315) [1] Target: bacterial WalR response regulator; Antibacterial Walrycin B is known as an analog of toxoflavin (a phytotoxin from *Burkholderia glumae*), which has been shown to have a strong MIC for *B. subtilis* and *S. aureus* but whose mode of action is not clear. The compound could also interact with WalR to cause bactericidal effects. Walrycins are a new class of potent small molecule compounds that kill bacterial cells by targeting the RR WalR and inhibiting this essential signal transduction pathway. They not only have therapeutic potential but will also prove to be useful reagents for the further study of the Walk/WalR TCS. Walrycin B target WalR and lead to cell death in both *B. subtilis* and *S. aureus*.

References:

[1]. Gotoh Y, et al. Novel antibacterial compounds specifically targeting the essential WalR response regulator. *J Antibiot* (Tokyo). 2010 Mar;63(3):127-34.

CAIndexNames:

Pyrimido[5,4-e]-1,2,4-triazine-5,7(1H,6H)-dione, 1,6-dimethyl-3-[4-(trifluoromethyl)phenyl]-

SMILES:

O=C(C1=NC(C2=CC=C(C(F)(F)F)C=C2)=NN(C)C1=N3)N(C)C3=O

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

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