Creative Enzymes®

CL075

Cat. No. LIGC-007

Lot. No. (See product label)

Introduction

Description	CL075 is a thiazoloquinolone derivative that stimulates TLR8 in human peripheral blood mononuclear cells. It activates NF-κB and triggers preferentially the production of TNF-α and IL-12. CL075 seems also to induce the secretion of IFN-α through TLR7 but to a lesser extend. It induces the activation of NF-κB at 0.4 μM (0.1 μg/ml) in TLR8-transfected HEK293 cells, and ~ 10 times more CL075 is required to activate NF-κB in TLR7-transfected HEK293 cells.

Product Information

Appearance	Yellow lyophilized powder
Molecular Formula	C13H13N3S
Molecular Weight	243.33
Concentration	Working Concentration: 0.1 - 5 μg/ml CL075 for human TLR8 and mouse TLR7 0.5 - 5 μg/ml CL075 for human TLR7
Specificity	human TLR7/8 and mouse TLR7 agonist
Solubility	1 mg/ml in water
Endotoxin Level	<0.001 EU/μg

Storage and Shipping Information

Storage	Store at -20°C.
Stability	Lyophilized product is stable 1 year at -20°C when properly stored. Resuspended CL075 should be aliquoted and stored at -20°C. Resuspended product is stable 6 months at -20°C. Avoid repeated freeze-thaw cycles.