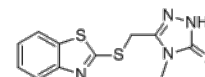


Product Name : Ceefourin-1
Cat. No. : PC-20572
CAS No. : 315702-40-0
Molecular Formula : C₁₁H₁₀N₄S₃
Molecular Weight : 294.41
Target : P-glycoprotein (P-gp)
Solubility : 10 mM in DMSO



CAS: 315702-40-0

Biological Activity

Ceefourin-1 is a highly selective inhibitor of multidrug resistance protein 4 (**MRP4**/ABCC4), inhibits the efflux of a broad range of MRP4 substrates.

Ceefourin-1 potentiates global cytosolic cAMP accumulation in BE(2)-C neuroblastoma cells following forskolin stimulation.

Ceefourin-1 is relatively non-toxic and well tolerated across a broad range of cell lines with IC₅₀ values typically >50 μM.

Ceefourin-1 reverses 6-MP resistance conferred by MRP4 in HEK293-MRP4 cells, and Ceefourin-1 is more potent than MK-571.

Ceefourin-1 exhibits no activity against cell lines overexpressing P-gp (HEK293-Pgp), ABCG2 (HEK293-ABCG2), and MRP1 (MCF7-VP16).

References

Cheung L, et al. *Biochem Pharmacol.* 2014 Sep 1;91(1):97-108.

Jördens MS, et al. *Glia.* 2015 Nov;63(11):2092-2105.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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