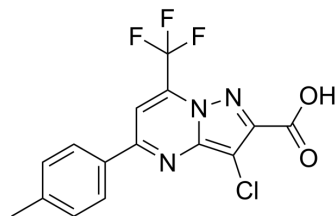


Ceefourin 2

Cat. No.:	HY-121088
CAS No.:	348148-51-6
Molecular Formula:	C ₁₅ H ₉ ClF ₃ N ₃ O ₂
Molecular Weight:	355.7
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ceefourin 2 is a potent and highly selective inhibitor of MRP4. Ceefourin 2 inhibits the transport of MRP4 substrates but is not selective for other ABC transporters. Ceefourin 2 shows lower cytotoxicity and higher microsomal and acid stability ^[1] .
In Vitro	Ceefourin 2 is highly selective for MRP4 over other ABC transporters, including P-glycoprotein (P-gp), ABCG2 (Breast Cancer Resistance Protein; BCRP) and MRP1 (ABCC1). Ceefourin 2 has limited off-target effects and high stability ^[1] . Ceefourin 2 (100 nM-100 μM) has low cellular toxicity (IC ₅₀ >50 μM) in two normal (HSF, MRC5), five neuroblastoma (BE(2)-C, IMR-32, IMR-32, SK-N-SH, SHEP) and four other human cancer cell lines (HEPG2, LNCap, SJ-G2, MCF7) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cheung L, et al. High-throughput screening identifies Ceefourin 1 and Ceefourin 2 as highly selective inhibitors of multidrug resistance protein 4 (MRP4). *Biochem Pharmacol.* 2014 Sep 1;91(1):97-108.

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

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